

PLC AUTOMATION SYSTEM



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DECLARATION

We undertake that, the undertaken project titled “ONLINE REGISTRATION OF ENROLLMENT AND EXAM PROCEDURE (BISE MIRPURKHAS)” is our own work. No portion of the work presented in this project has been submitted in support of another award or qualification either at this institution or elsewhere. Where material has been used from other sources it has been properly acknowledged / referred

Signature

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Dedication

Dedicated to our parents.

ABSTRACT

Online registration of enrollment and exam procedure (BISE MirpurKhas) is a web based application which is designed to provide easiness for students of SSC and HSC who want to automate their system and the process of enrolment of students and issuing of exam slips is very hectic tasks due to manual processing. Online Registration (BISE MirpurKhas) is a platform between the students and the BISE workers which collect form's and make slips for student. Students will register and fill enrolment form after enrolling when the date of exam form comes they will notified and full exam form after that the slips will be generated on the dashboard of the student. The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MYSQLI Localhost server and all the user interfaces have been designed using the PHP and MYSQLI. The database connectivity is planned using the "SQL Connection" methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. This application take care of the student data and get this data when student enroll or fill exam form when it needed.

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LIST OF ABBREVIATIONS

HTML	Hypertext Markup Language
CSS	Cascading Stylesheets
BOOTSTRAP 4	Popular framework of CSS
PHP	Hypertext Preprocessor
SQL	Structured Query Language
JAVASCRIPT	Describe the behavior of web pages
JQUERY	Javascript Library simplifies programming
BISE	Board of Intermediate and education
HSC	Higher Secondary School Certificate
SSC	Secondary School Certificate
XAMPP	Cross platform , Apache , Mysql , PHP and PERL

Chapter No 1

Introduction

1.1 Overview

“Online registration of enrollment and exam procedure of BISE MirpurKhas”. Is our system it is designed to automate the system of BISE from manual paper work and reduce the redundancy of data of a student and fill the enrollment and exam form of student through online by registration and generate slips for exam

This system is used to increase the consistency of data and get ride from mistakes which comes in paper work and creates efficiency and fast enrollments of students in BISE and slips generated easily which gives ease to the student and the workers of BISE

We are required to develop a web-based application on “Online registration of enrollment and exam procedure of BISE MirpurKhas”. In this time everybody want to work fast and without wasting his/her time

1.2 Background

“Online registration of enrollment and exam procedure of BISE MirpurKhas”

Is a web based platform where student can register and enroll his self and fill form of exam when it avail and get latest news from it and when the date of exams come near the admin will generate the slips of student and student will download or save his slip from his/student panel instead of going his/her college or school

1.3 Problem Statement

The manual processing of enrollment and exam slips is time consuming job. Also there are many chances of human error in this type of processing. Many students miss the deadline to fill the forms. Therefore, there is a need to make and use computerized applications to reduce these problems in BISE MirpurKhas.

1.4 Project Aim and Objectives:

The main aim of this project is to replace and help students to get ride from manual process of enrollment of the college/school to have an organized flow of transactions and easy access. In this regard following are the main objectives:

- Student can enroll his/her self and can change his profile information and password of his login info.
- Interactive user interface
- Secure storage database

1.5 Scope of Project

This project scope is limited to the basic Student information for now. It can be extended to include all the activity of results and evaluation.

1.6 Thesis Organization

The chapter 1 gives general introduction, in the chapter 2 we review the available literature, the chapter 3 gives the project design and methodology, ...

Chapter No. 2

Literature Review

2.1 Board of Intermediate and secondary education Karachi

BSEK was established in 1950 the major ambition of this board is to promote school education and this board work for betterment of education and maintain high standards of education in Karachi.



Figure 2.1 BISE Karachi Design

2.2 BISE Hyderabad

The Board of Intermediate and Secondary Education, Hyderabad is one of the oldest boards which was established under West Pakistan Ordinance 1961. Since its establishment, there had been a number of Ordinances/Acts for effective functioning of the Board. Prior to establishment of the Board, the University of Sindh was responsible for conducting matriculation examination under Sindh University Act 1947. Initially, the Board was established in 'Metharam Hostel' near to General Post Office, Hyderabad. In the preface of Board's document titled 'Decade of Progress (1958-1968)', Prof. Ibrahim Shamim, Ex-Chairman of the Board highlighted that due to collective efforts of the Board employees, the Board emerged as 'powerful education institution' which assumed responsibility of improving quality of education at secondary and intermediate level in all districts of Sindh excluding Karachi. The Commission on National Education (1958) recommended a two-year intermediate education (Class XI-XII) after matriculation (Class X) and the Board was assigned responsibility of conducting examination at secondary and intermediate level. Thus, the University of Sindh handed over responsibility to the Board for conducting examination of secondary and intermediate education in 1961 under the leadership of Dr G.A. Jafferri, the Founding Chairman of the Board. Mr A.G. Akhund, the then Minister for Law and Parliamentary Affairs, Government of West Pakistan laid a foundation stone of the purpose-built building on February 24, 1967. The Board moved to its existing building (1.75 acres) on December 26, 1967. However, the building was formally inaugurated by Mr Malik Abdul Latif Khan, the then Secretary of Ministry of Education on September 3, 1968.

Chapter No. 3

System Analysis and Design

3.1 Analysis

After working on this project we analyzed the unnecessary wastage of the time while doing everything manually when we fill enrollment, exam and get slips from Board MirpurKhas, and this web app is the best way to utilize the resources efficiently.

The main issue we examined in the different BISE Boards that students will get full benefit from it and use this app without any difficulty from home without going Board Office to fill the exam and get challans

This web system allows the students and employees of BISE will do every work automated, hence the time wastage problem gets solved.

3.2 Enroll Design

The screenshot displays a web application interface for student enrollment. At the top, a red navigation bar contains the links "Home" and "Enroll Student". Below this, a dark grey header bar is labeled "Enrollment Form". The form itself is organized into two columns. The left column includes fields for "Full Name" (with a placeholder "Enter Full Name"), "Surname" (placeholder "Enter your surname"), "Gender" (a dropdown menu currently set to "Male"), "Date of Birth" (placeholder "dd/mm/yyyy" with a calendar icon), "Password" (placeholder "Enter your password"), and "Profile Picture" (a "Choose File" button and the text "No file chosen"). The right column includes fields for "Father Name" (placeholder "Enter Father Name"), "Number" (placeholder "Enter phone number"), "Address" (placeholder "Enter address"), "Username" (placeholder "Enter your username / email"), "Confirm Password" (placeholder "Enter to confirm password"), and "Enrollment Fee Challan Pic" (a "Choose File" button and the text "No file chosen").

Figure 3.1 Enroll Design

The figure 3.1 shows the student enrollment form and is the main interface for the student user.

3.3 Login snapshot Design

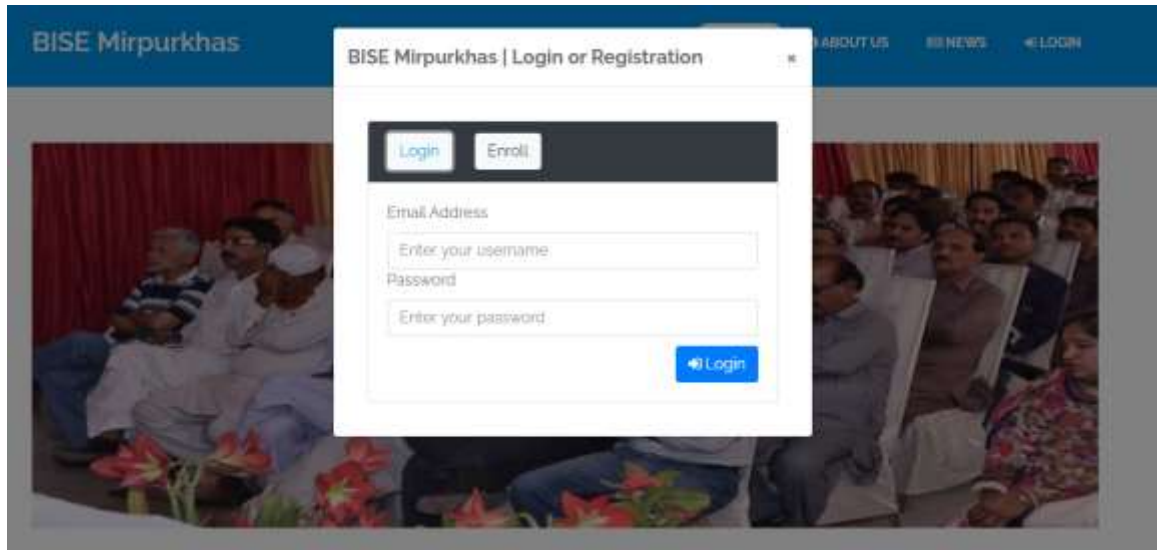
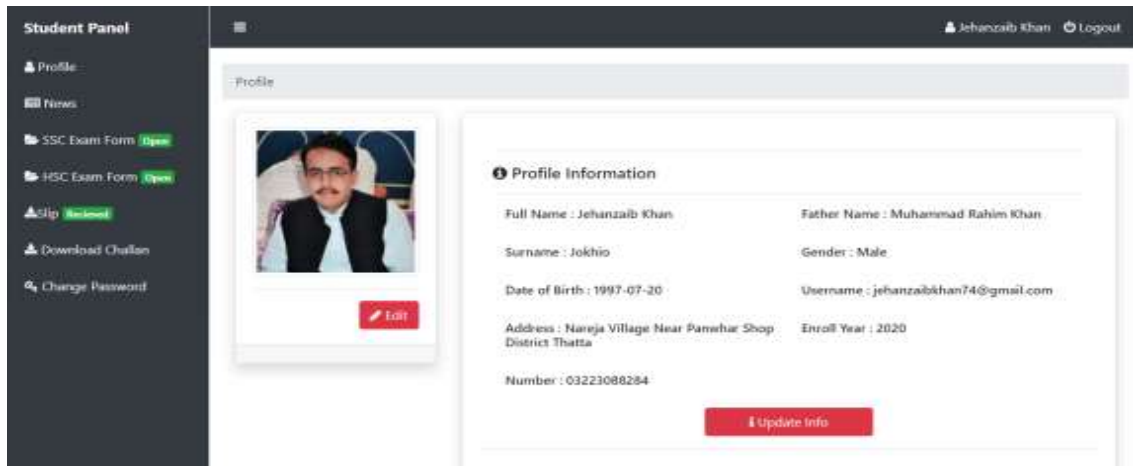


Figure 3.2 Login Snapshot Design

Login snapshot the main Entrance 2 input fields email and password and 1 Button in Model View

This page redirects to the student panel or dashboard

3.4 Main student panel snapshot design



The image shows a web application interface for a student panel. On the left is a dark sidebar with a 'Student Panel' header and a list of menu items: Profile, News, SSC Exam Form (with a green 'Open' button), HSC Exam Form (with a green 'Open' button), a 'Logout' button, Download Challan, and Change Password. The main content area has a top header with the user's name 'Jehanzaib Khan' and a 'Logout' link. Below this is a 'Profile' section. It features a profile picture of a man with a mustache and a red 'Edit' button. To the right of the picture is a 'Profile Information' form with fields for Full Name (Jehanzaib Khan), Father Name (Muhammad Rahim Khan), Surname (Jokhio), Gender (Male), Date of Birth (1997-07-20), Username (jehanzaibkhan74@gmail.com), Address (Nareja Village Near Panshar Shop District Thatta), Enroll Year (2020), and Number (03223088284). A red 'Update Info' button is at the bottom right of the form.

Figure 3.3 Main student panel Design

This is the main student panel dashboard where he/she can see here profile information and update it.

3.5 Student exam form panel snapshot design:



The image shows a web application interface for a student exam form. The sidebar is identical to the one in Figure 3.3. The main content area has a top header with the user's name 'Jehanzaib Khan' and a 'Logout' link. Below this is a 'Profile / SSC Exam Form' section. It features a profile picture of a man with a mustache and a red 'Edit' button. To the right of the picture is a 'Personal Information' form with fields for Full Name (Jehanzaib Khan), Father Name (Muhammad Rahim Khan), Surname (Jokhio), Number (03223088284), and Gender. To the right of the personal information form is an 'Exam Information' form with fields for School Name (Maria Millennium), Class (IX), Group (Biology), Subject 1 (English I), and Subject 2.

Figure 3.4 Student exam form snapshot

This is the exam form of SSC or HSC where student can fill his/her exam form with challan picture

3.6 Student Slip Generated Snapshot Design:

Profile / Exam Slip

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION MIRPURKHAS (SINDH)
EXAMINATION SLIP FOR CANDIDATE
SSC PART I & II ANNUAL EXAMINATION 2021

GROUP : BIOLOGY
REGULAR STUDENT
NAME : JEHANZAIB KHAN
FATHER'S NAME : MUHAMMAD RAHIM KHAN
SURNAME : JOKHIO
INSTITUTE : MARIA MILLENNIUM
CENTRE : GOVT BOYS SCHOOL JAMSHORO
COLONY



SEAT NO : 110



APPEARING SUBJECT	DATE	TIME	SESSION	DURATION
English I	2021-01-06	9 : 30	Morning	3 or 2 Hours
Sindhi	2021-01-07	9 : 30	Morning	3 or 2 Hours
Islamiyat	2021-01-14	9 : 30	Morning	3 or 2 Hours
Chemistry	2021-01-19	9 : 30	Morning	3 or 2 Hours
Biology	2021-01-28	9 : 30	Morning	3 or 2 Hours

Biology & Chemistry (PR)

Candidate Signature _____

Figure 3.5 Student Slip Generated Design

This is the main feature of this project, student slip which he can download or print it from his dashboard panel

3.7 Admin Main dashboard snapshot design:

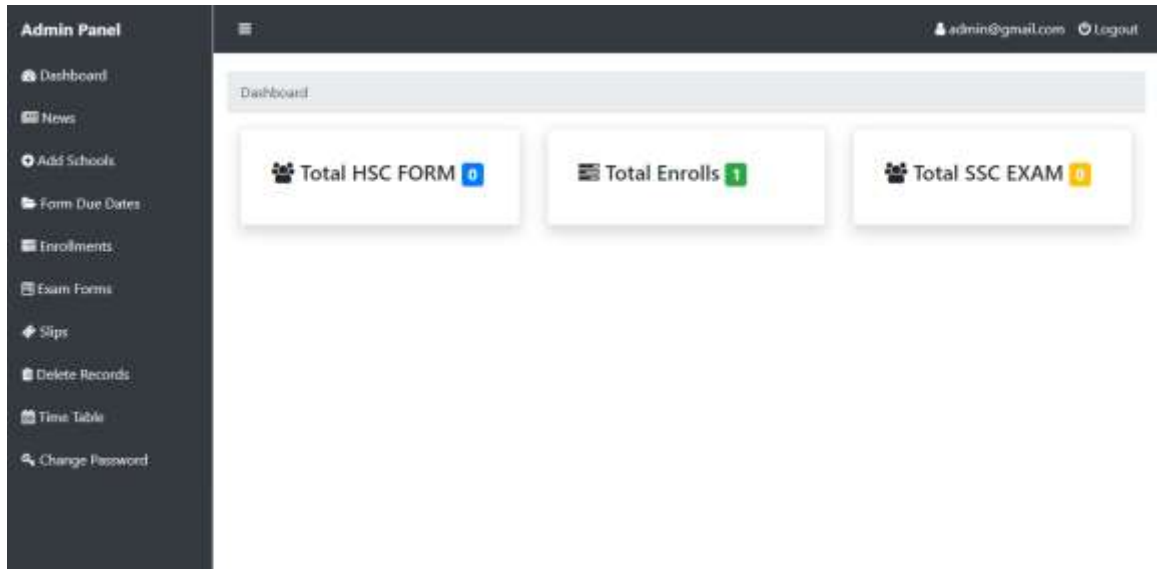


Figure 3.6 Admin Main Dashboard Design

This is the Main Dashboard Panel of Admin

3.8 Admin View Enroll Snapshot Design:

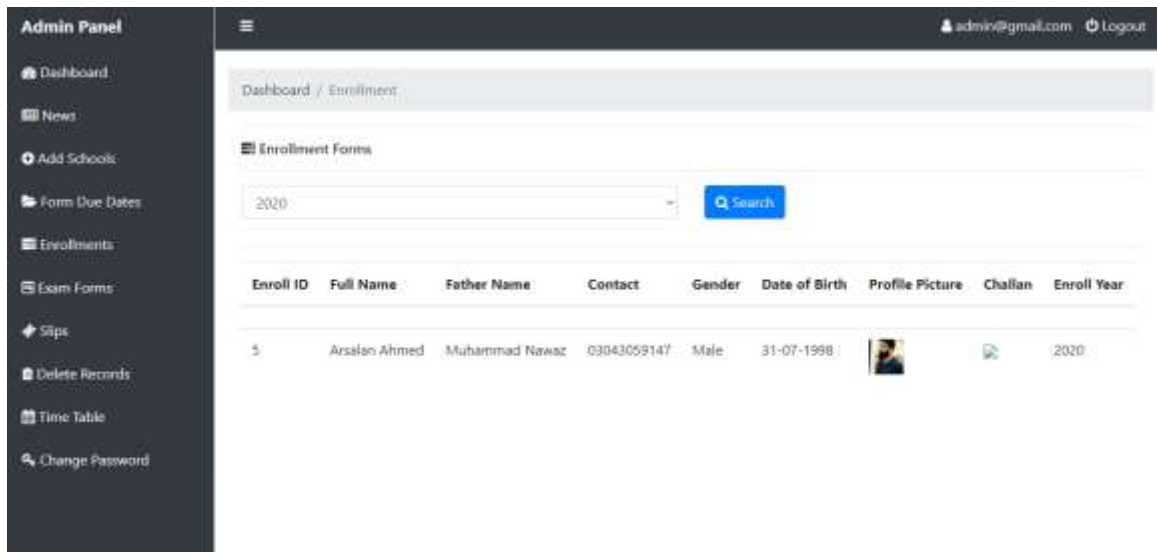


Figure 3.7 Admin View Enroll Design

Here admin can see all the students who enroll in BISE MirpurKhas.

3.9 Add Institute snapshot design

The screenshot shows an admin panel interface. On the left is a dark sidebar with the 'Admin Panel' title and a list of navigation items: Dashboard, News, Add Schools, Form Due Dates, Enrollments, Exam Forms, Slips, Delete Records, Time Table, and Change Password. The top header is dark and contains a user profile icon, the email 'admin@gmail.com', and a 'Logout' link. The main content area has a breadcrumb 'Dashboard / Add Institute'. Below this, there are two tabs: 'Add Institute' (active) and 'View Institute'. The 'View Institute' tab displays a table of existing institutes. The 'Add Institute' tab shows a form with two input fields: 'School Name *' and 'Centre Name *', both with placeholder text 'Enter School Name'. A blue 'Add School' button is at the bottom right of the form.

Institute Name	Centre Name
Maria Millennium	Govt Boys School Jamshoro Colony
The Educators	Govt High school hyderabad
Preston College Hyderabad	Public school hyderabad
Govt Girls High School Hyderabad	Hayat Girls College Hyderabad
Leadership School System	Mehran Public school jamshoro

Figure 3.8 Add Institute Design

Here admin can add the institutes with Centre names

3.10 Admin form due date:

The screenshot displays the 'Admin Panel' interface. On the left is a dark sidebar with a menu containing: Dashboard, News, Add Schools, Form Due Dates (highlighted), Enrollments, Exam Forms, Slips, Delete Records, Time Table, and Change Password. The main content area has a top header with 'admin@gmail.com' and a 'Logout' link. Below this is a breadcrumb trail 'Dashboard / Form Due Dates'. The 'Form Due Dates' section contains two cards. The first card, 'SSC Exam Forms | 2021-01-20', features a date input field with a calendar icon, an 'Update' button, and a red 'Close Registration' button. The second card, 'HSC Exam Forms | 2020-12-03', features a similar date input field, an 'Update' button, and a green 'Open Registration' button. Below these cards is the 'Form Fees Details' section, which includes a table with the following data:

Exam Form Fees Details
Fees : Rs 1200
After Due Date Fees : Rs 500

Figure 3.9 Admin Form due Date Design

Here admin can open and close the registration of SSC and HSC and update the due date so students can fill the exam form of particular class.

3.11 Admin slip timetable snapshot design:

The screenshot displays the 'SSC Exam Time Table' interface. On the left is a dark sidebar with navigation options: Add Schools, Form Due Dates, Enrollments, Exam Forms, Slips, Delete Records, Time Table, and Change Password. The main content area is titled 'SSC Exam Time Table' and contains four panels for different class levels: SSC IX, SSC X, HSC XI, and HSC XII. Each panel lists subjects in a table with date selection fields and update buttons.

SSC IX Class Subjects		
English I	dd/mm/yyyy	☐
Sindhi	dd/mm/yyyy	☐
Pakistan Studies	dd/mm/yyyy	☐
Chemistry	dd/mm/yyyy	☐
Biology Computer	dd/mm/yyyy	☐
<button>SSC IX Update</button>		

SSC X Class Subjects		
English I	dd/mm/yyyy	☐
Sindhi	dd/mm/yyyy	☐
Pakistan Studies	dd/mm/yyyy	☐
Chemistry	dd/mm/yyyy	☐
Biology Computer	dd/mm/yyyy	☐
<button>SSC X Update</button>		

HSC XI Class Subjects		
English I	dd/mm/yyyy	☐

HSC XII Class Subjects		
English I	dd/mm/yyyy	☐

Figure 3.10 Admin Slip timetable Design

This is timetable of exams where admin can set the date of subjects of 9th , 10th , 11th and 12th class after this admin will generate slips according to the class

3.12 Admin Generate Slips

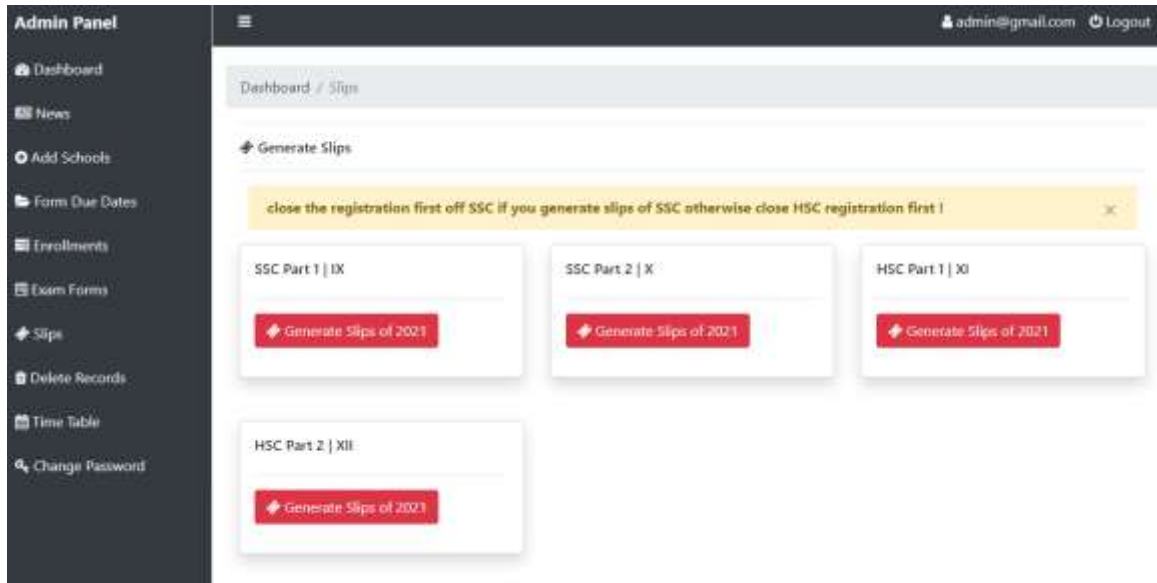
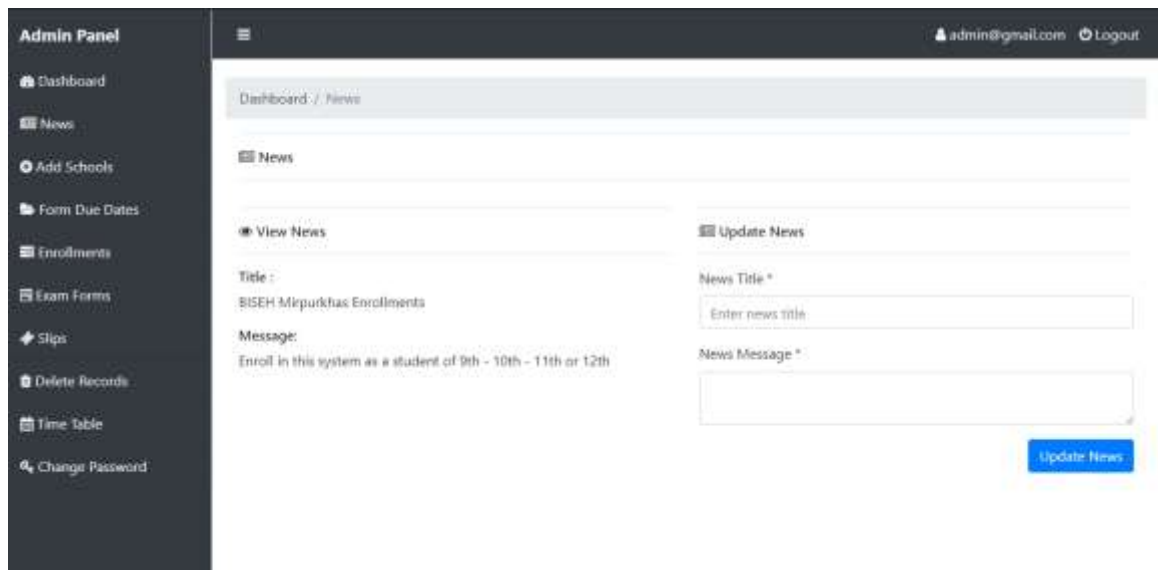


Figure 3.11 Admin Generate Slip Design

Here admin can generate the slips but after closing the registration of exam forms

3.13 Admin Update News:

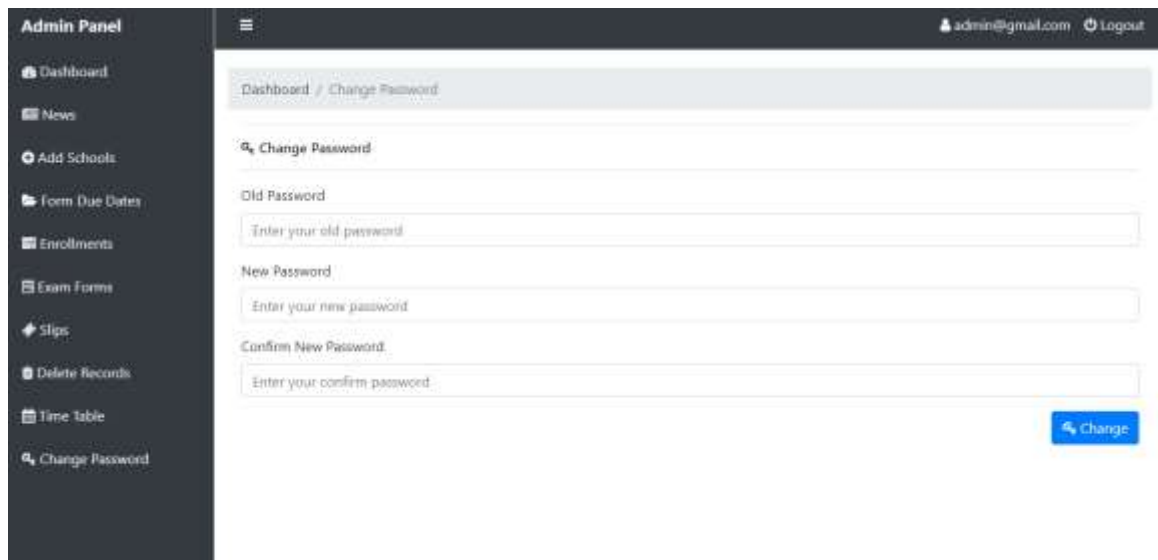


The screenshot displays the 'Admin Panel' interface for updating news. On the left is a dark sidebar with the 'Admin Panel' title and a list of navigation items: Dashboard, News, Add Schools, Form Due Dates, Enrollments, Exam Forms, Slips, Delete Records, Time Table, and Change Password. The main content area has a dark header with a user profile icon, the email 'admin@gmail.com', and a 'Logout' link. Below the header, a breadcrumb trail shows 'Dashboard / News'. The 'News' section contains two tabs: 'View News' and 'Update News'. The 'Update News' tab is active, showing a form with two required fields: 'News Title *' and 'News Message *'. The 'News Title *' field contains the placeholder text 'Enter news title'. The 'News Message *' field is empty. A blue 'Update News' button is located at the bottom right of the form. The 'View News' tab shows a preview of a news item with the title 'BISEH Mepukhas Enrollments' and the message 'Enroll in this system as a student of 9th - 10th - 11th or 12th'.

Figure 3.12 Admin Update News Design

Here admin can update news and its title so student can see the latest alerts.

3.14 Admin Change Password Snapshot:



The image shows a web application interface for an admin user to change their password. On the left is a dark sidebar titled "Admin Panel" with a list of menu items: Dashboard, News, Add Schools, Form Due Dates, Enrollments, Exam Forms, Slips, Delete Records, Time Table, and Change Password. The main content area has a top header with a hamburger menu icon, the email "admin@gmail.com", and a "Logout" button. Below the header is a breadcrumb trail "Dashboard / Change Password". The form itself is titled "Change Password" and contains three input fields: "Old Password" with the placeholder "Enter your old password", "New Password" with the placeholder "Enter your new password", and "Confirm New Password" with the placeholder "Enter your confirm password". A blue "Change" button is located at the bottom right of the form.

Figure 3.13 Admin Change Password Design

In this page admin can change his/her password of his Main Panel.

3.15 Use Case Diagram

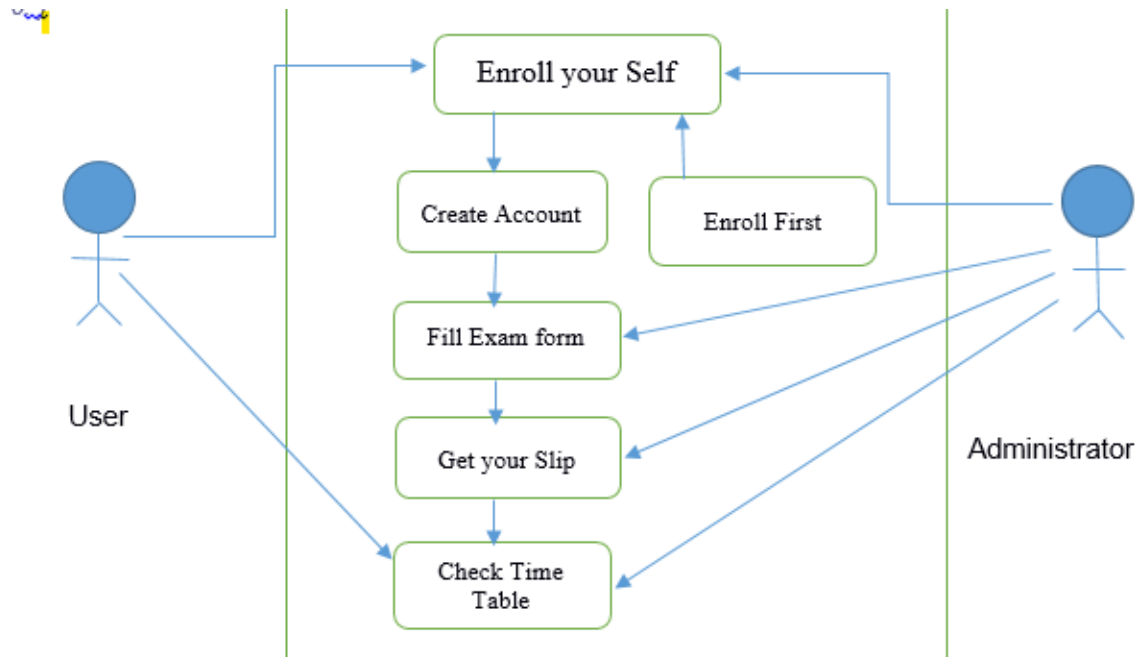


Figure 3.14 Use Case Diagram

3.16 ER Diagram

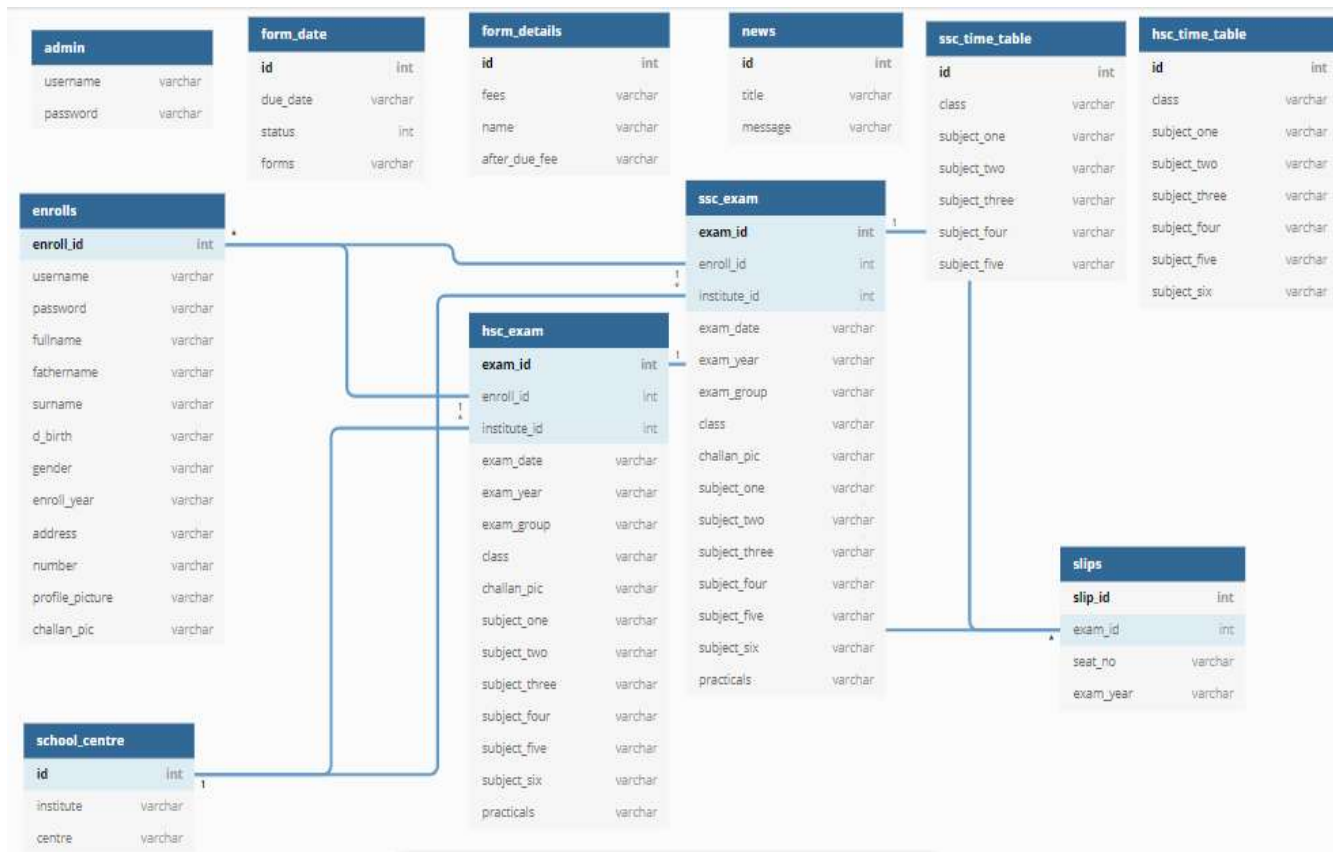


Figure 3.15 Er Diagram

3.17 Tools and Technology

3.17.1 HTML

Hypertext Markup Language is the standard markup language for creating web pages and web applications. With Cascading Style Sheets and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

3.17.2 CSS

CSS is the latest evolution of the Cascading Style Sheets language and aims at extending CSS2.1. It brings a lot of long-awaited novelties, like rounded corners, shadows, gradients, transitions or animations, as well as new layouts like multi-columns, flexible box or grid layouts.

3.17.3 Bootstrap 4

Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.

3.17.4 PHP

The PHP stands for hypertext preprocessor used to make the web pages dynamic it is an open source server side language we need local server to run the php scripts so XAMPP Is best software and local server where we run the files

3.17.5 MYSQLI

The MySQL is a relational database and it is a database that defines a structure for storing information full form of MYSQL is (MY Structural Query Language Improved) we use this database for php web application this is secure and efficient database

3.17.6 SUBLIME TEXT EDITOR

Sublime Text is a shareware cross-platform source code editor with a Python application programming interface. It natively supports many programming languages and markup languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses.

Chapter No. 4

Methodology

4.1 Agile (Methodology)

4.1.1 What is agile?

“Agile Development” is an umbrella term for several iterative and incremental Software Development Methodologies [4]. The most popular agile methodologies include extreme programming (XP), Scrum, Crystal, Dynamic Systems Development Method (DSDM), Lean Development, and feature-Driven



Figure 4.1 Agile Methodology

Development (FDD).

While each of the agile methodologies is unique in its specific approach, they all share a common vision and core values (see the agile Manifesto). They all fundamentally incorporate iteration and the continuous feedback that it provides to successively refine and deliver a software system.

4.1.2 The Evolution of the Agile Development Methodology

Many of the individual principles and practices that are promoted by agile development have been around for years, even decades. As opposed to implementing these best practices piecemeal, agile methodologies have “packaged” various customers, management, and in some cases, Agile Software Development is an approach to software Development under which requirements and solutions evolve through the collaborative effort of self-organizing and cross-functional teams and their (customers) s /end user (s).

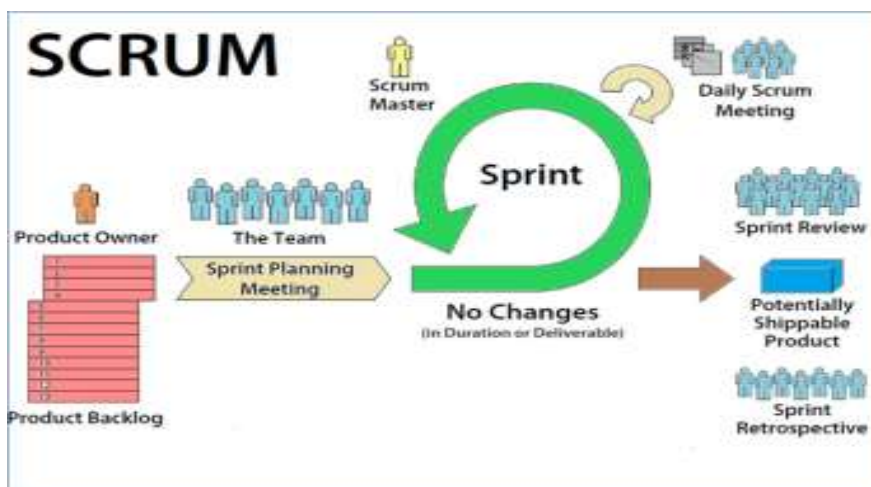
4.1.3 What is Scrum?

Scrum is part of the agile movement. Agile is a response to the failure of the dominant software development project management paradigms (including waterfall) and borrows many principles from lean manufacturing. In 2001, 17 pioneers of similar methods met at the snowbird ski Resort in Utah and wrote the agile manifesto, a declaration of four values and twelve principles. These Values and principles stand in stark contrast to the traditional project Manager’s Body of

Knowledge (PMBOK). The Agile Manifesto placed a new emphasis on communication and collaboration, functioning software, team self-organization, and the flexibility to adapt to emerging business realities.

4.1.4 How Does Scrum Fit With Agile?

The Agile Manifesto doesn't provide concrete steps. Organizations usually seek more specific methods within the agile movement. These include Crystal Clear, Extreme Programming, Feature Driven Development, Dynamic Systems Development Method (DSDM), Scrum, and others. While I like all the Agile Approaches, for my own team Scrum was the one that enabled our initial breakthroughs. Scrum's simple definitions gave our team the autonomy we needed to do our best work while helping our boss (who became our product owner) get the business results he wanted. Scrum opened our door to other useful Agile practices such as test-driven development (TDD). Since then we've helped businesses around the world use scrum to become more Agile. A truly agile enterprise would not have a "business side" and a "technical side." It would have teams working directly on delivering business value. We get the best results when we involve the whole business in this, So those are types of engagements I'm personally the most interested in.



4.1.5 What's The Philosophy behind Scrum?

Scrum's early advocates were inspired by empirical inspect and adapt feedback loops to cope with complexity and risk. Scrum emphasizes decision making from real-world results rather than speculation. Time is divided into short work cadences, known as sprints, typically one week or two week long. The product is kept in a potentially shippable (properly integrated and tested) state at all times. At the end of each sprint, stakeholders and team members meet to see a demonstrated potentially shippable product increment and plan its next step.

Scrum is a simple set of roles, responsibilities, and meetings that never change. By removing unnecessary unpredictability. We're better able to cope with necessary unpredictability of continuous discovery and learning.

4.1.6 Scrum Roles?

Scrum has three roles: Product Owner, Scrum Master, and Team.

4.1.6.1 Product Owner

The Product Owner should be a person with vision, authority, and availability. The Product Owner is responsible for continuously communicating the vision and priorities to the development team.

It's sometimes hard for product owners to strike the right balance of involvement. Because Scrum Values self- organization among teams. A Product Owner must fight the urge to micro-manage. At the same time, Product Owners must be available to answer questions from the team.

4.1.6.2 Scrum Master

The Scrum Master acts as a facilitator for the Product Owner and the team. The Scrum Master does not manage the team. The Scrum Master works to remove any impediments that are obstructing the team from achieving its sprint goals. This helps

the team remain creative and productive while making sure its successes are visible to the Product Owner. The Scrum Master also works to advise the Product Owner about how to maximize ROI for the team.

4.1.6.3 Team

According to Scrum's founder, "the team is utterly self-managing." The development team is responsible for self-organizing to complete work. A Scrum development team contains about seven fully dedicated members (officially 3-9), ideally in one team room protected from outside distractions. For software projects, a typical team includes a mix of software engineers, architects, programmers, analysts, QA experts, testers, and UI designers. Each sprint, the team is responsible

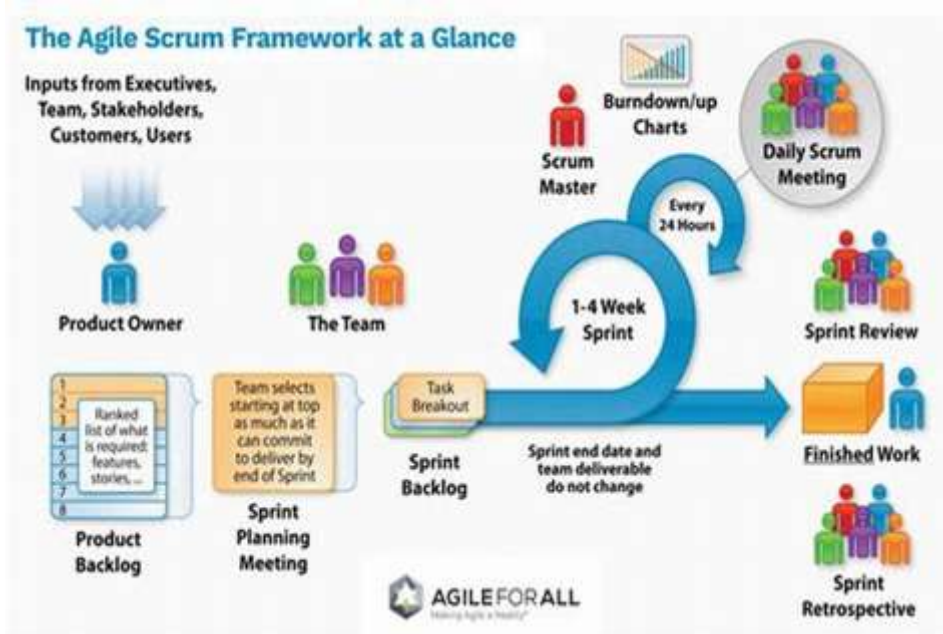


Figure 4.3 Team

For determining how it will accomplish the work to be completed. The team has autonomy and responsibility to meet the goals of the sprint.

4.1.7 Why Scrum?

4.1.7.1 Managing risk and change effectively

By using small steps and quick feedback (tests, customers) errors from misunderstandings are quickly addressed. Focusing on the most valuable and most risky aspect of the project up front reduce the cost of failure and therefore give a greater understanding of risk in the project. Leaving options open until the last Responsible moment (Avoiding big up front design) reduces the risk of wasted work and helps facilitate change in line with the business goal. Architecture evolves instead of being fixed ridged.

4.1.7.2 A light touch of order to the chaos

Defines principles to aim for rather than cold dogma. Defining a flow of work and the roles and responsibilities to manage and maintain that flow. Organizing without stifling the creativity or variation that increases value of the work.

4.1.7.3 Faster time to market

By releasing functionality early and often, feedback is greatly increased and real understanding of what is needed is quicker to arrive as work is done in small self-contained pieces it can be created and delivered quickly.

4.1.7.4 Improved quality

Defects are discovered and tackled early by including testing aspects and only software needed by the customer is developed.

4.1.7.5 Improved stakeholder satisfaction

Stakeholder (customers, testers, developers, etc.) have greater involvement and influence in the product development and therefore have more affinity to the project.

4.1.7.6 Higher Productivity and lower costs

Only building what's immediately needed reduces the waste of developing things that are not wanted smaller code bases should on average have fewer bugs, so writing less code is more productive. This is by no means an exhaustive list of reasons to start agile adoption (with Scrum or similar approaches) but give you a flavor as to the aims and benefits of an agile way of working.

Chapter No. 5

Implementation and Evaluation

Evaluation plays a critical role for quality assurance and for ensuring there liability of the software. Its basic function is to detect the errors. After the coding phase, testing is done to test the proper working of the new system. Testing is the process of executing a program with the intention of finding errors. It is a complete verification to determine whether the objectives are met and the user requirements are satisfied. The testing phase involves testing of a system using various test data. Preparation of the test data plays a vital role in the system testing.

The test data, the system under study is testing using those test data. Errors were found and corrected by using the following testing steps and corrections are recorded for future references. Thus, a series of testing is performed on the system before it is ready for coding. Since code is the only product that can be executed frequently whose actual behavior can be observed, this phase is so important for the successful implementation of the software product. Thus, the goal of testing is to cover the requirements, design and coding errors in the program.

5.1 Unit Testing

is a software testing technique by means of which individual units of software i.e. group of computer program modules, usage procedures and operating procedures are tested to determine whether they are suitable for use or not. It is a testing method using which every independent modules are tested to determine if there are any issue by the developer himself. It is correlated with functional correctness of the independent modules.

Unit testing is defined as a type of software testing where individual components of a software are tested.

Unit testing of software product is carried out during the development of an application. An individual component may be either an individual function or a procedure. Unit testing is typically performed by the developer.

All the modules developed are independent. Even the whole process of approval for all. Each module is integrated well with other modules. And all the interfaces are tested successfully.

5.2 Functional Testing

In this type of software testing that validates the software system against the functional requirements/specifications. It works on functional requirements of project that the project works according to the user or not like student can fill exam for or not, slips will be generated or not, any incorrect data not should be involved The purpose of Functional tests is to test each function of the software application, by providing appropriate input, verifying the output against the Functional requirements.

5.3 System Testing

In system testing, we test whole system, check the performance of system functionalities. Like how the application performs in low-end devices and, how secure is the system etc.

Results and Discussion

6.1 Enroll | Login

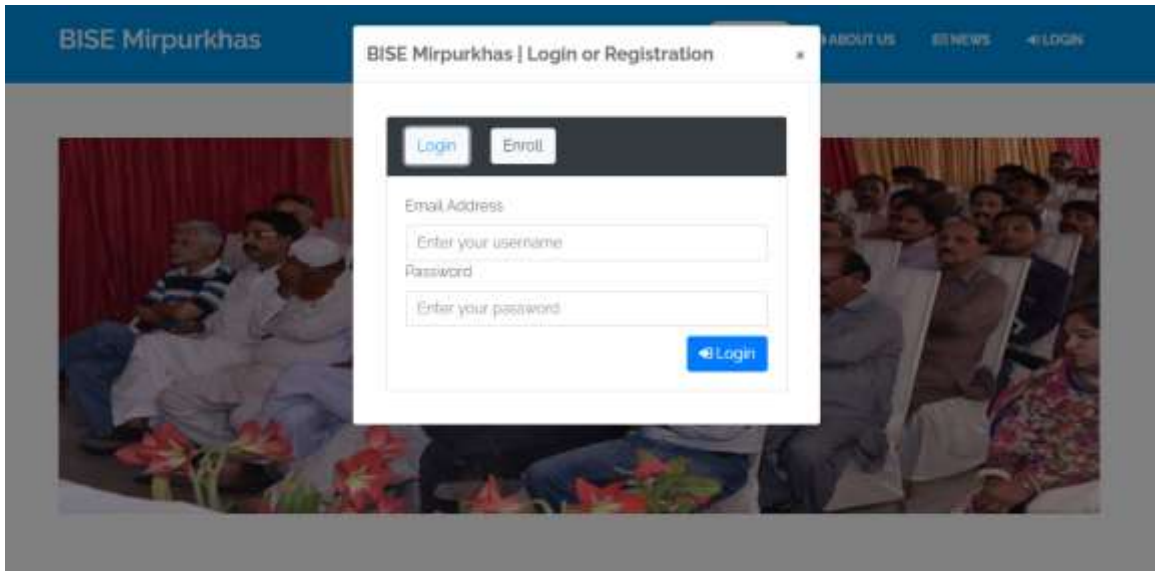


Figure 6.1 Login

This is Login snapshot of the Web App and this is entry point of the Software at very first time after logging in this will redirect to the student panel where student can see his all the details and forms.

6.2 Main Dashboard Snapshot

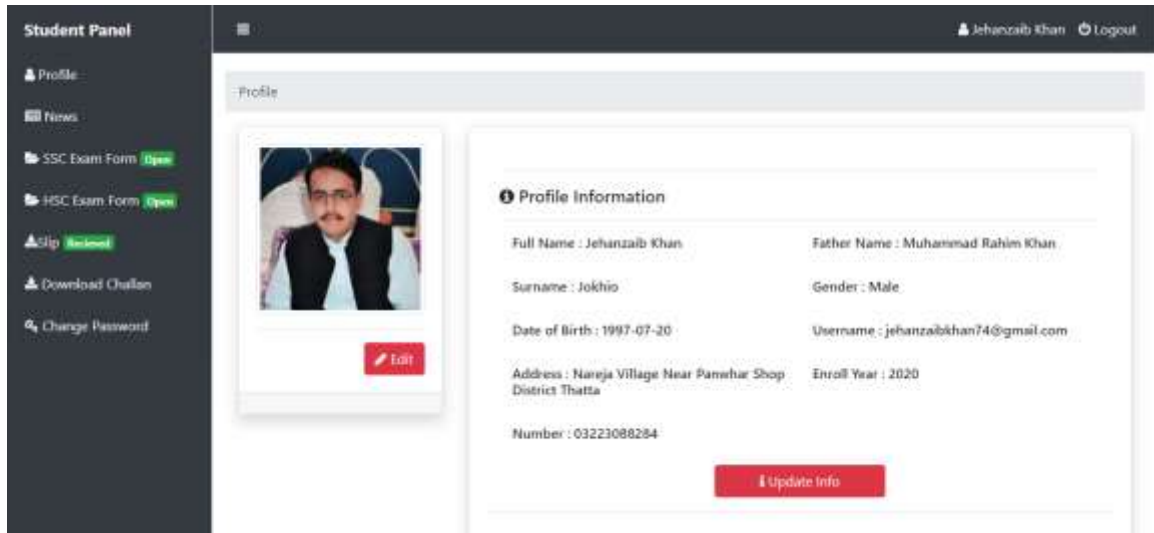


Figure 6.2 Main Page

This is main snapshot of Application and the student will see his info check latest updates, download challan and print his/her slip

6.3 Result in Slip Generated

Profile / Exam Slip

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION MIRPURKHAS (SINDH)
EXAMINATION SLIP FOR CANDIDATE
SSC PART I & II ANNUAL EXAMINATION 2021

GROUP : BIOLOGY
REGULAR STUDENT
NAME : JEHANZAIB KHAN
FATHER'S NAME : MUHAMMAD RAHIM KHAN
SURNAME : JOKHIO
INSTITUTE : MARIA MILLENNIUM
CENTRE : GOVT BOYS SCHOOL JAMSHORO COLONY



SEAT NO : 110



APPEARING SUBJECT	DATE	TIME	SESSION	DURATION
English I	2021-01-06	9 : 30	Morning	3 or 2 Hours
Sindhi	2021-01-07	9 : 30	Morning	3 or 2 Hours
Islamiyat	2021-01-14	9 : 30	Morning	3 or 2 Hours
Chemistry	2021-01-19	9 : 30	Morning	3 or 2 Hours
Biology	2021-01-28	9 : 30	Morning	3 or 2 Hours

Biology & Chemistry (PR)

Candidate Signature _____

Figure 6.3 Result

In final result the slip will be generated of student so they can download or print it

Chapter No. 7

Conclusion and Future Work

7.1 Conclusion

So far, the results expected are satisfactory and draws a successful conclusion for the project. As per requirements the admin can monitor the student profile information and check enrollments and update the news for student , so student can aware every activity of BISE MirpurKhas

Further developments can be carried out, Web Application can be used for students admin and other authorities

The Board arranges for its own examination centers and select examiners to ensure fair and transparent examination system. Similarly, the preparations of results of all of secondary and intermediate classes are being done under scrutiny of administration of the Board and the checking criterion is uniform in all of the BISE Boards of Pakistan. Mirpurkhas is an engaged Board, it accommodates hundreds of students each year with its services.

It is one of Pakistan's oldest and well organized BISE Board as well. The Board is working with vision of contributing its loyal services to elevate the education system of Pakistan and introduce such policies that can enable progress and development of secondary and intermediate education in its jurisdiction areas as well as accommodates its registered students and their guardians. The Board is accountable for all of its function and must report to the Governor of Mirpurkhas.

7.2 Future Work

In this web application there are few things which we will add in it like improve and failure exam form and connect all the Boards of Sindh for students who will change their boards without any hardship

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