Objectives

The primary goal of the NRI Compass – College Management System is to develop a centralized, secure, and user-friendly platform that automates various academic and administrative activities within a college. The system is designed to improve efficiency,

accuracy, and transparency in institutional management.

The specific objectives of the project are as follows:

1:To automate college operations – Replace traditional manual methods of record-keeping and management with an automated digital system to save time and minimize errors.

2:To provide role-based access – Offer secure login and access for different users such as Admin, Faculty, Students, HR, Library Staff, and Examination Cell, ensuring that each role can perform specific

3:The NRI Compass – College Management System is a web-based application developed to simplify and automate the administrative, academic, and record-management processes of educational institutions. The system provides a centralized platform that connects various users, including students, faculty, administrators, and departmental heads, to ensure efficient communication and data handling.

This project aims to replace the traditional manual record-keeping and data management processes with a secure and user-friendly digital system. The system facilitates login access for different user roles such as Admin, Faculty, Student, Library, HR, Exam Cell, and more, allowing each user to perform specific tasks relevant to their role. Key features include secure authentication, session management, online record maintenance, and a responsive design that ensures accessibility across devices.

The proposed system is designed using HTML, CSS, and JavaScript for the front-end, ensuring an interactive and intuitive user interface. It can be integrated

with back-end databases such as MySQL or Firebase for data storage and retrieval. The system enhances productivity by reducing paperwork, saving time, and minimizing human error.

Overall, NRI Compass serves as a digital gateway to manage institutional activities efficiently, improving the transparency, accuracy, and reliability of administrative and academic operations.

Problem Statement

Educational institutions often face challenges in managing access for different types of users—students, faculty, administrators, and staff—within a single digital platform.
Currently, separate systems or manual processes are used for various operations such as attendance, library management, examination records, and administrative tasks.
This lack of integration leads to:

- Repetitive data entry and inefficiency
- Security risks due to weak or shared login credentials
- Difficulty in maintaining session-specific user data
- Limited accessibility and poor user experience

Therefore, there is a need for a **centralized, secure, and user-friendly login system** that can authenticate multiple user types and direct them to their respective dashboards efficiently.

Overview

The increased digitization of institutions has led to the rapid r of web-based platforms\\ that handle administrative, academic, and human resource-related operations. This shift has given rise to the need for centralized systems that support multi-role user access, streamline processes, and provide efficient service delivery.
The NRI Compass project is an innovative approach to designing a responsive, interactive, andre scalable role-based login system tailored for educational or administrative institutions. Using web technologies like HTML, CSS, and JavaScript, this enables users such as Students, Faculty, Admin, and HR personnel to sign through a unified portal. The project lays the groundwork for a full-fledged application by providing secure navigation, UI validation, and temporary session storage.

This system is part of a proactive effort to reduce redundancy, eliminate paper-based logins, and provide an easy-to-use frontend that can later be integrated with backend databases and authentication modules. By focusing primarily on the presentation and validation layer, it ensures users feel an enriched experience during the login process.

.2 Problem Background

In a traditional institutional setting, various departments like academics, human resources, library, and administration often operate separately. This lack of streamlined communication and access can lead to multiple disjointed login systems. Users may require separate credentials for each portal or may have to manually login through physical desks or inefficient digital systems.

This fragmented approach creates multiple challenges:

Increased Maintenance: Managing separate systems for different user groups leads to unnecessary maintenance efforts.

User Confusion: Users need to remember different usernames and passwords for each service offered by the institution.

Data Redundancy: Multiple sign-in records for a single user increase the risk of data duplication.

Security Risks: Lack of centralized login access increases vulnerability to unauthorized access or weaker password handling.

In many institutions, especially those that are transitioning from traditional to digital systems, there is a need for a unified, centralized system that can handle various user types with role-based access without being overwhelming or complex.

Need for the System

The **NRI Compass** system aims to address the shortcomings of multi-faceted systems by providing a **single entry point** to the institution's web applications. There are several reasons highlighting the need for such a system:

Centralized Access: Users can access services based on their role through a unified system.

Improved Security: With a single authenticated system, the risk of password mismatch or unauthorized entry is minimized.

User-Friendly Interface: A simplified and visually appealing login page increases user engagement and efficiency.

Future-Proofing: The frontend framework paves the way for future backend development, database connectivity, and further role-specific modules.

Better Session Management: By implementing local storage capabilities and form validations, data is temporarily stored and errors are avoided, improving usability.

Project Goals

The project has been designed with the following key goals:

Develop a Unified Login System: The primary goal is to create a dynamic and centralized login page that supports different user roles.

Ensure Form Validation & Security: Implementing validation for every input field, including user-type, username, and password, to avoid false entries.

Build an Intuitive Frontend: The UI should be visually friendly and responsive on multiple devices and screen sizes.

Enable Session Storage: User details such as role and session are temporarily stored using browser storage, ensuring effective transition to dashboards.

Prepare for Integration: Although currently frontend-only, the system is structured so that backend logic and databases can easily be incorporated later.

Project Scope

The scope of the **NRI Compass** project covers the complete **frontend development** of a role-based login portal. Specifically, the project includes:

Designing a login interface that integrates user-type selection, session input, and credential fields.

Providing client-side error validation and real-time feedback to users using JS-based pop-ups and inline messages.

Implementing temporary session storage using local Storage.

Developing optional navigation to role-based dashboards (e.g., Student Dashboard).

Designing with scalability in mind, allowing future expansion into backend services, database integration, and verified login credentials.

Out of Scope (for present phase):

Backend authentication systems (e.g., database-driven login validation)

Full dashboard implementation for each role Server-side processing and API integration Complete user management or profile-based system

In today's digital era, educational institutions are rapidly adopting technology to manage their administrative and academic operations more effectively. Manual systems of maintaining student records, managing faculty data, conducting examinations, and tracking institutional activities are time-consuming and prone to human error. To address these challenges, the NRI Compass – College Management System has been developed as a web-based application that provides an integrated and user-friendly solution for managing college-related information.

The system is designed to streamline multiple activities such as student registration, faculty management, library records, examination processes, and administrative control. It acts as a centralized platform where different users—Admin, Faculty, Students, HR, Library Staff, and Examination Cell—can access and manage data relevant to their specific roles. The goal is to create a unified digital environment that ensures smooth communication and efficient record handling within the institution.

NRI Compass enhances productivity by automating routine processes like login authentication, session management, data storage, and report generation. It minimizes paperwork and the risk of data loss by maintaining all records in a secure online database. The application provides flexibility through a responsive design built with HTML, CSS, and JavaScript, ensuring compatibility with desktops, laptops, and mobile devices.

This project also focuses on data integrity and accessibility, allowing authorized users to retrieve and update information in real time. By implementing such a system, institutions can achieve improved coordination, transparency, and accountability across departments.

Ultimately, NRI Compass serves as a digital transformation initiative for colleges aiming to modernize their management systems, making academic and administrative processes more efficient, accurate, and sustainable.

Objectives

The primary goal of the NRI Compass – College Management System is to develop a centralized, secure, and user-friendly platform that automates various academic and administrative activities within a college. The system is designed to improve efficiency, accuracy, and transparency in institutional management.

The specific objectives of the project are as follows:

1:To automate college operations – Replace traditional manual methods of record-keeping and management with an automated digital system to save time and minimize errors.

functions relevant to their responsibilities.

3:To enhance data accuracy and security – Maintain all student and staff data in a centralized database to ensure reliability, reduce duplication, and prevent unauthorized access.

4:To simplify information retrieval – Enable easy access to student details, faculty information, attendance records, and academic reports through an intuitive interface.

5:To improve communication and coordination – Establish a common digital platform that facilitates better interaction and coordination among various departments of the institution.

6:To create a responsive and user-friendly interface – Design a visually appealing and mobile-compatible front-end using HTML, CSS, and JavaScript to ensure smooth user experience.

7:To ensure scalability and flexibility – Develop a system that can be easily upgraded or expanded to include additional modules such as fee management, online examinations, and notifications.

8:To promote paperless administration – Contribute to environmental sustainability by reducing the dependency on physical records and documentation.

9:To generate reports and analytics – Provide automated generation of academic and administrative reports for quick decision-making and monitoring.

10:To support institutional digital transformation – Help the college transition from manual systems to a modern, technology-driven management approach that aligns with current educational standards.

Literature Review

A Literature Review provides a background study of existing systems, technologies, and research related to the development of college management systems. It helps identify the strengths and weaknesses of previous works and highlights how the proposed project — NRI Compass – College Management System — offers improved solutions.

Over the past few years, several educational institutions have adopted digital solutions to automate their administrative and academic functions. Various researchers and developers have proposed models and web applications that aim to manage student information, faculty records, and institutional resources more efficiently.

Traditionally, colleges relied on manual record-keeping methods such as paper-based registers and spreadsheets to manage student details, attendance, and examination records. While these methods were simple, they were prone to data loss, human error, and inefficiency in data retrieval. Moreover, communication between departments was slow and uncoordinated, leading to delays in administrative decision-making.

Early Digital Systems:

The initial shift towards digital management systems involved the use of standalone software applications for specific tasks like attendance management, result processing, or fee collection. However, these systems lacked integration, meaning data stored in one department was not easily accessible to another. This created data redundancy and inconsistency across different modules.

Modern Web-Based Systems:

Recent advancements in web development technologies have made it possible to design integrated, role-based, and cloud-connected systems that provide real-time access to data. Applications built using HTML, CSS, JavaScript, and backed by databases like MySQL or Firebase,

allow secure login and management for multiple users simultaneously. Such systems support role-based access for Admins, Faculty, and Students, ensuring privacy and efficiency.

Comparative Analysis:

Studies and practical implementations of systems such as Campus ERP, College Management Portal, and Student Information Systems have demonstrated that web-based applications can significantly improve productivity, reduce paperwork, and enhance communication. However, many of these systems are either too complex or require high technical maintenance, which can be challenging for smaller institutions.

Research Gap:

Most existing systems focus on either administrative or academic functions separately. There is a lack of lightweight, user-friendly platforms that combine all college functions—such as student management, library services, HR, and examinations—under one integrated interface

Introduction

In today's digital era, educational institutions are rapidly adopting technology to manage their administrative and academic operations more effectively. Manual systems of maintaining student records, managing faculty data, conducting examinations, and tracking institutional activities are time-consuming and prone to human error. To address these challenges, the NRI Compass – College Management System has been developed as a web-based application that provides an integrated and user-friendly solution for managing college-related information.

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academic and administrative processes more efficient, accurate, and sustainable.

Feasibility Study

A feasibility study evaluates the practicality of implementing the NRI Compass system in terms of technical, economic, and operational aspects.

1. Technical Feasibility

The system is developed using widely supported and easy-to-implement web technologies like HTML, CSS, and JavaScript. These technologies ensure cross-browser compatibility and responsiveness on various devices. The project does not require complex hardware, and can run on any standard web server. Thus, the technical requirements are minimal and feasible.

2. Economic Feasibility

The application is cost-effective as it uses free and open-source tools during development. No additional software purchase or expensive licensing is needed. This makes the project suitable for deployment in educational institutions with limited budgets. Initial setup and ongoing maintenance costs are also low.

3. Operational Feasibility

The user interface is designed to be intuitive, requiring minimal training for end users such as students and staff. The system supports multiple user roles, each with specific access rights, boosting operational efficiency. Features like validation, error prompts, and authentication mechanisms improve usability and security, making the system reliable for daily use.

4. Legal and Ethical Feasibility (Optional)

The system follows standard data protection norms and ensures secure handling of user credentials. Proper access control and session-based data storage help in maintaining privacy, which is essential for institutional data handling.

Project Planning

Effective planning ensures that the project is organized, time-bound, and completed within the given constraints. Two common planning tools used in software development are:

PERT Chart (Program Evaluation Review Technique)

PERT is used to visualize the tasks and their dependencies, helping estimate project duration more accurately. Below is a simple PERT chart breakdown:

[Start]

|

Requirement Gathering (3 days)

|

Design Phase (3 days)

|

Development Phase (20 days)

|

Testing Phase (5 days)

|

Documentation (5 days)

|

[End]

c**ritical Path:** Requirement → Design → Development → Testing → Documentation

Total estimated duration: **36 days**

Frontend Technologies

The front-end of the **NRI Compass** application has been developed using core web technologies to provide an intuitive, responsive, and interactive user interface.

1. HTML (Hyper Text Markup Language)

Front-End Implementation

HTML – Structure Layer

HTML provides the foundational structure for the login page.

It defines input fields, dropdown menus, and buttons necessary for user interaction.

- Used to define the structure and layout of the login page and form elements.
- Ensures semantic structuring for better accessibility and SEO optimization.
- Provides elements like <input>, <select>, <button>, and used throughout the login interface.

2. CSS3 (Cascading Style Sheets)

CSS (Cascading Style Sheets) is a style sheet language used to control the presentation (look and layout) of web pages written in HTML. While HTML defines the structure and content, CSS defines how that content appears.

Why use CSS?

- To separate content (HTML) from design (CSS).
- To create visually appealing and responsive designs.
- To apply consistency across multiple web pages by using external style sheets.

- To enhance UI/UX through animation, effects, and layout control.

Key Features of CSS

✅ Selectors and Properties

CSS works with selectors (elements you want to style) and properties (what you want to change):

```
h1 {
  color: blue;
  text-align: center;
}
```

✅ Box Model Concept

Every element is like a box consisting of:

- Margin
- Border
- Padding
- Content

✅ Flexbox and Grid Layouts

Used to create responsive and flexible page designs.

Example using flexbox:

```
.container {
  display: flex;
  justify-content: center;
  align-items: center;
}
```

✅ Responsive Design

CSS Media Queries help adapt layouts to different screen sizes.

```
@media (max-width: 600px) {
  .container {
    padding: 10px;
  }
}
```

✅ Styling Forms

Your login form uses CSS to enhance input fields, buttons, and error messages.

```
input[type="text"], input[type="password"] {
  width: 100%;
  padding: 12px;
  border-radius: 8px;
  border: 1px solid #ddd;
}
```

Where to Write CSS?

1. Inline CSS
   Inside HTML tags (not recommended for large projects):
2. Hello
3. Internal CSS
   In <style> block inside <head> of HTML:
4. <style>
5. body { background-color: lightblue; }
6. </style>
7. External CSS
   In a linked .css file (best practice):
8. <link rel="stylesheet" href ="styles.css">

CSS Used in Your NRI Compass Form

Your login page uses CSS for:

- Gradients in background
- Shadows and rounded elements
- Icon positioning and focus state
- Animations for notifications
- Responsive container adjustments

- Enhances visual presentation with custom styles, including shadows, gradients, and rounded corners.
- Implements responsive design via flexible layouts and media queries.
- Used to style elements such as forms, buttons, input fields, and backgrounds.
- Includes modern features like **linear-gradient**, **box-shadow**, and **flexbox** for UI alignment and animation.

3. JavaScript (Vanilla JavaScript)

- Adds interactivity and client-side functionality.
- Handles form validation (checking empty input fields, error display).
- Implements UI behaviour such as showing/hiding password text, displaying notifications, and handling button clicks.
- Uses events like click, input, and keypress for responsive user actions.

Tools and Platforms

- Code Editor: VS Code
- Browser for Testing: Chrome, Firefox

Backend

- **Local Storage (Web API):**
  Used to store minimal user data like selected user type and session for demo purposes.
- **Backend Language (, Python, Node.js):**
  Can be implemented for authentication and database interaction.
- **Database (MongoDB):**
  Can be integrated to store and manage user credentials securely.

Implementation

Overview

The NRI Compass project was implemented using a front-end web technology stack consisting of HTML, CSS, and JavaScript.

It focuses on building a secure, responsive, and user-friendly login interface for multiple user roles — Admin, Faculty, Student, HRM, and Library Staff.

This implementation is a key module of the college automation system, serving as the access gateway for future modules like Attendance, Fee Management, and Exam Result systems.

The main implementation goals include:

Developing a responsive interface adaptable to desktop and mobile devices.

Implement

- Password visibility toggle
- User session management (using local Storage)
- Page redirection upon successful login
- System Modules Implemented
- Login Module – Handles authentication of different user roles.
- Validation Module – Prevents incomplete or incorrect form submissions.
- Session Management – Temporarily stores user details using local Storage.
- Navigation Module – Redirects to appropriate dashboard pages post-login.
- Notification Module – Displays user-friendly error alerts dynamically.
- The login system underwent several testing phases:
- Form Validation Testing: Ensured fields cannot be left empty.

Future Scope

- Integration with Backend Database

- Currently, the NRI Compass login system performs only front-end validation.
- In the future, the system can be enhanced by connecting it to a backend database such as MySQL, MongoDB, or Firebase.
- This would allow real-time verification of user credentials, dynamic session handling, and secure data storage.

- **Role-Based Dashboard Development**

- Each user type (Admin, Faculty, Student, HRM, Library, etc.) can have a dedicated dashboard:
- Admin Dashboard: Manage users, records, and reports.
- Student Dashboard: View attendance, marks, and fee details.
- Faculty Dashboard: Upload grades, attendance, and notices.
- This will make the system more modular and practical for college use.

- **Enhanced Security Features**

- Future improvements can include:
- Encryption of passwords using hashing algorithms.
- Two-factor authentication (2FA) for additional login security.
- CAPTCHA integration to prevent automated login attempts.
- Session timeouts to auto-logout inactive users.

- **4. Responsive and Mobile App Version**
- The system can be transformed into a Progressive Web App (PWA) or Android/iOS app using frameworks like:
- React Native or Flutter
- PWA with offline support

- This will make the platform accessible anytime, anywhere on smartphones.

- **5. Cloud Deployment**
- Hosting the project on cloud platforms such as AWS, Google Cloud, or Microsoft Azure will ensure:
- High availability
- Secure data backups
- Scalability for large numbers of users

- **Integration with Academic Modules**
- The project can be expanded into a complete College Management System by adding:
- Attendance Management
- Fee Management System
- Exam Result Portal
- Digital Library Access
- Notification and Messaging System
- These modules will help automate daily institutional operations efficiently.

- **AI and Analytics Integration**
- Future upgrades could integrate Artificial Intelligence to analyze data trends:
- 1:Predict student performance using attendance and grades.
- 2:Generate automated academic reports.
- 3:Use chatbots to guide users during login or navigation.
- To make the system inclusive and user-friendly:
- Add voice assistance and screen reader compatibility for accessibility.

- **Version Control and Continuous Improvement**

- Using GitHub or GitLab, developers can manage versions of the system, collaborate, and track changes efficiently.
- This encourages continuous improvement, testing, and scalability of the system.

- Real-Time Notifications and Email Alerts
- Add support for real-time notifications using Firebase Cloud Messaging (FCM) or Socket.io to alert students and staff instantly about important updates like results, events, or deadlines

Conclusion

The NRI Compass – College Management Login System successfully demonstrates the use of web technologies such as HTML, CSS, and JavaScript to design and develop an efficient, responsive, and interactive login interface for an educational institution. The project serves as a fundamental step toward digitizing academic processes by offering a secure and user-friendly gateway for different user roles like Admin, Student, Faculty, HRM, and Library Staff.

The implementation of form validation, user session handling, and responsive UI design ensures a professional and practical approach to college portal systems. Through this project, a clear understanding was achieved regarding front-end development, user authentication mechanisms, and client-side scripting techniques.

Furthermore, the project lays the groundwork for future improvements — such as database integration, backend development, role-based dashboards, and security enhancements — that can transform this prototype into a full-fledged College Management System.

This project not only fulfills the minor project requirements but also enhances the technical skills in web development and provides a solid base for building more complex applications in the future. It demonstrates how simple front-end technologies can be effectively used to cr

NRI Compass

Sign in to start your session

Select User Type

-- Select User Type --

Select Session

-- Select Session --

Username/FileNo

Enter your username or file number

Password

Enter your password

Sign In

Booking Details

Edit

Service:	Bus Booking
From:	New Delhi
To:	Manali
Date:	15 Nov 2023
Amount:	₹1,250

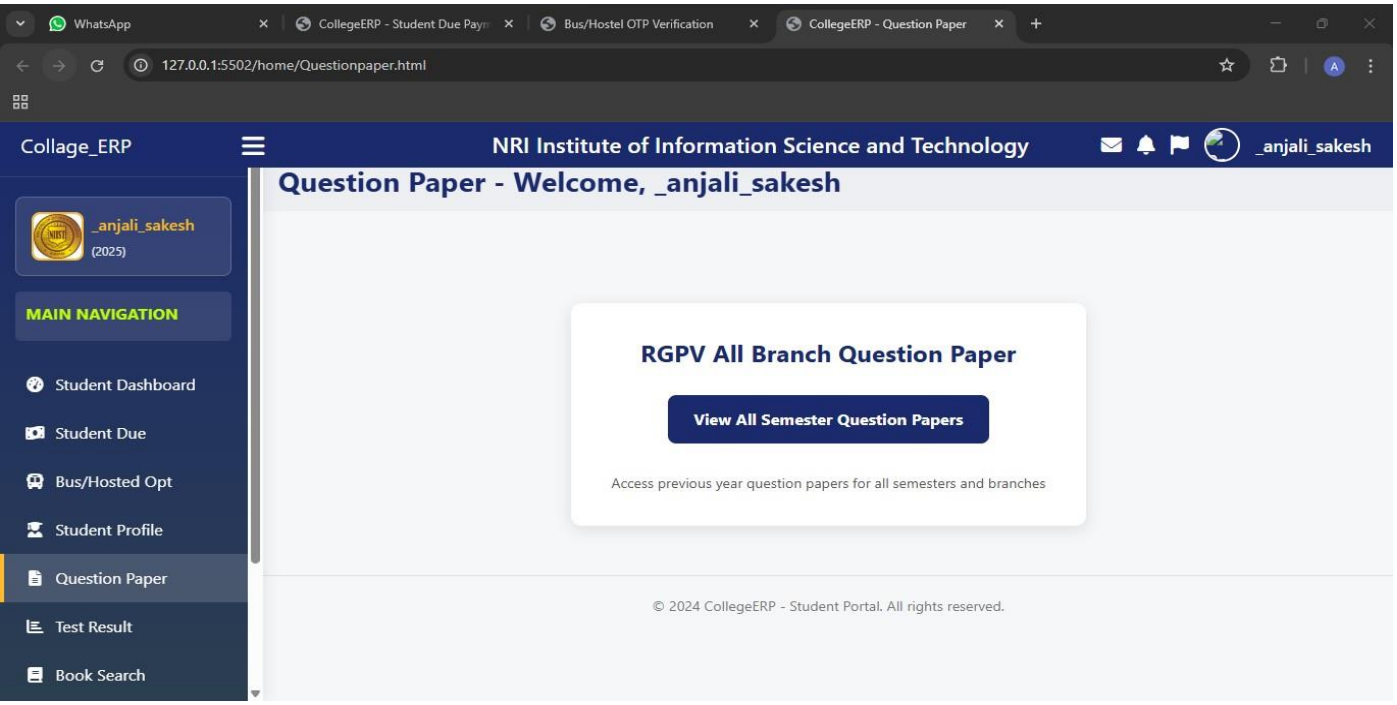
Phone Number

+91 98765 43210

Email Address

user@example.com

Send OTP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Book Search
RGPV All Branch Question Paper
View All Semester Question Papers
Access previous year question papers for all semesters and branches
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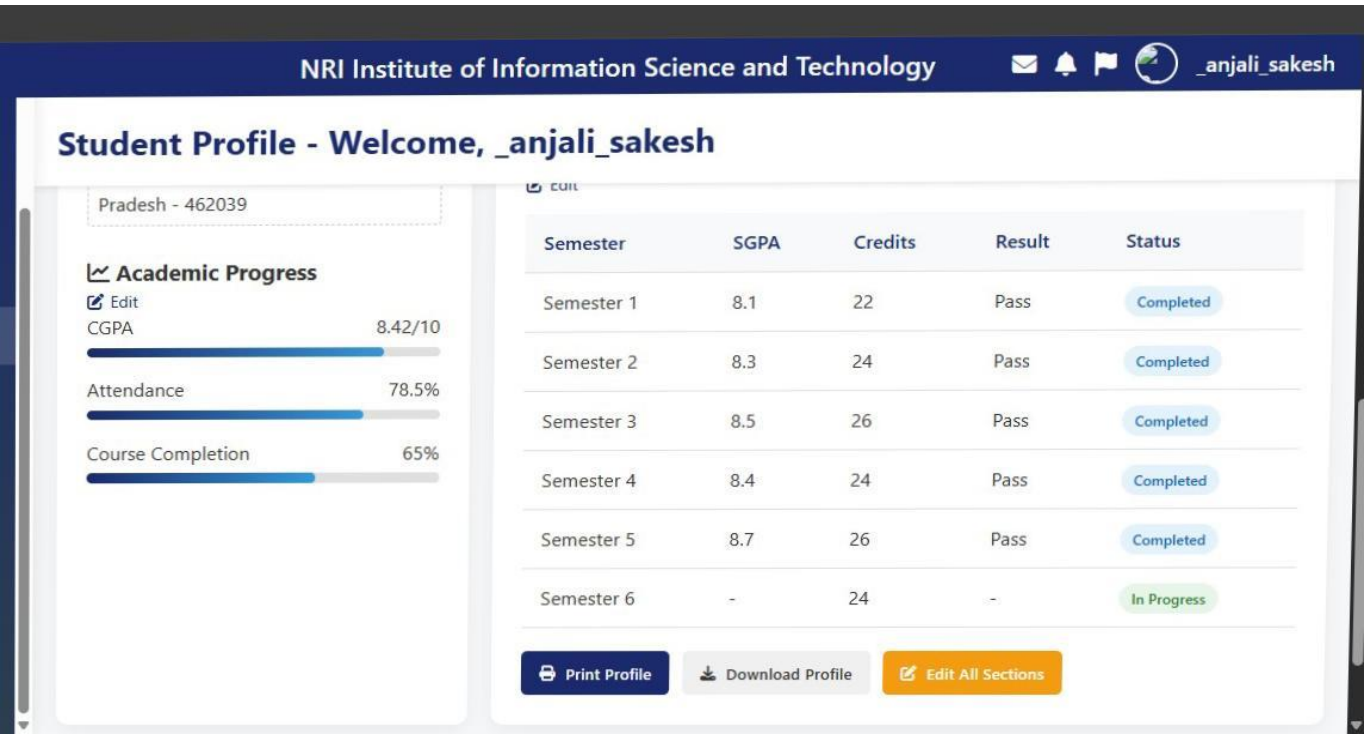
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Academic Progress
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Attendance 78.5%
Course Completion 65%
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Semester 2 8.3 24 Pass Completed
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Semester 4 8.4 24 Pass Completed
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Semester 6 - 24 - In Progress
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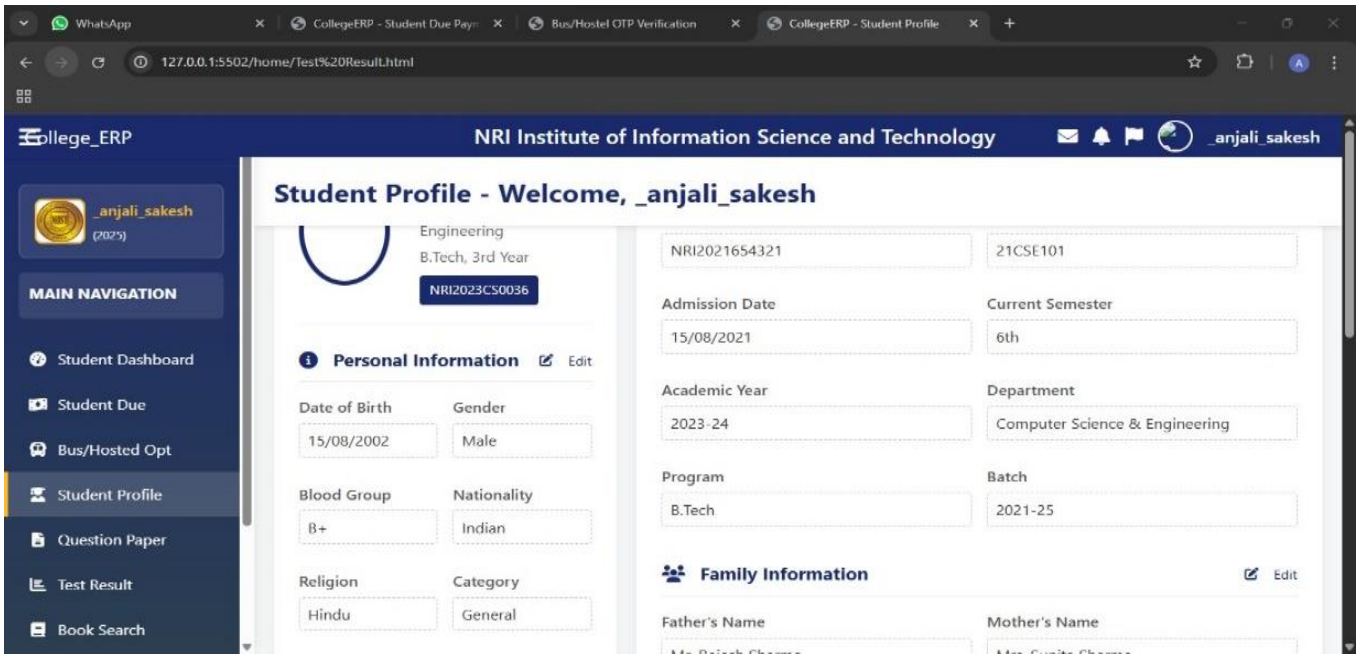
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Male
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Nationality
Indian
Religion
Hindu
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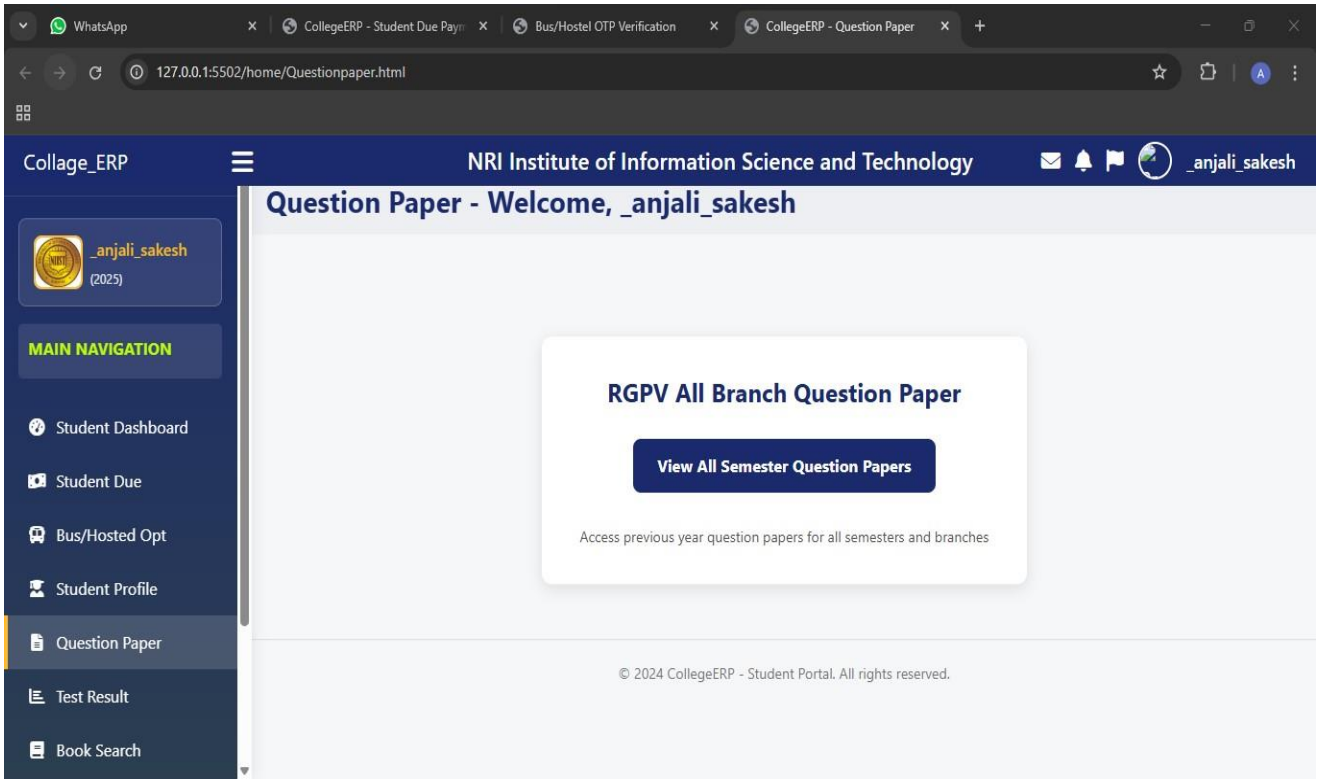
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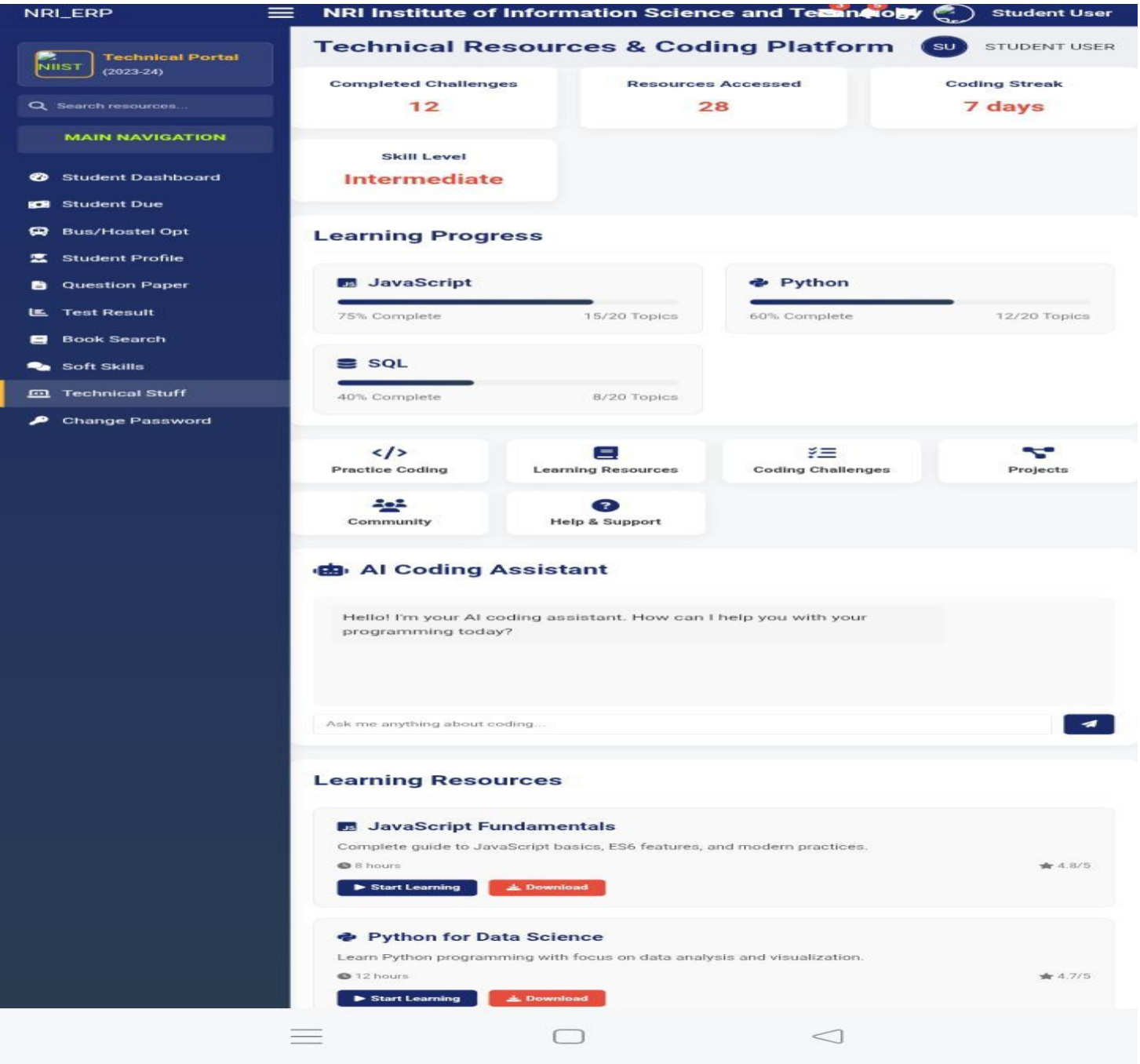
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Soft Skills
Technical Stuff
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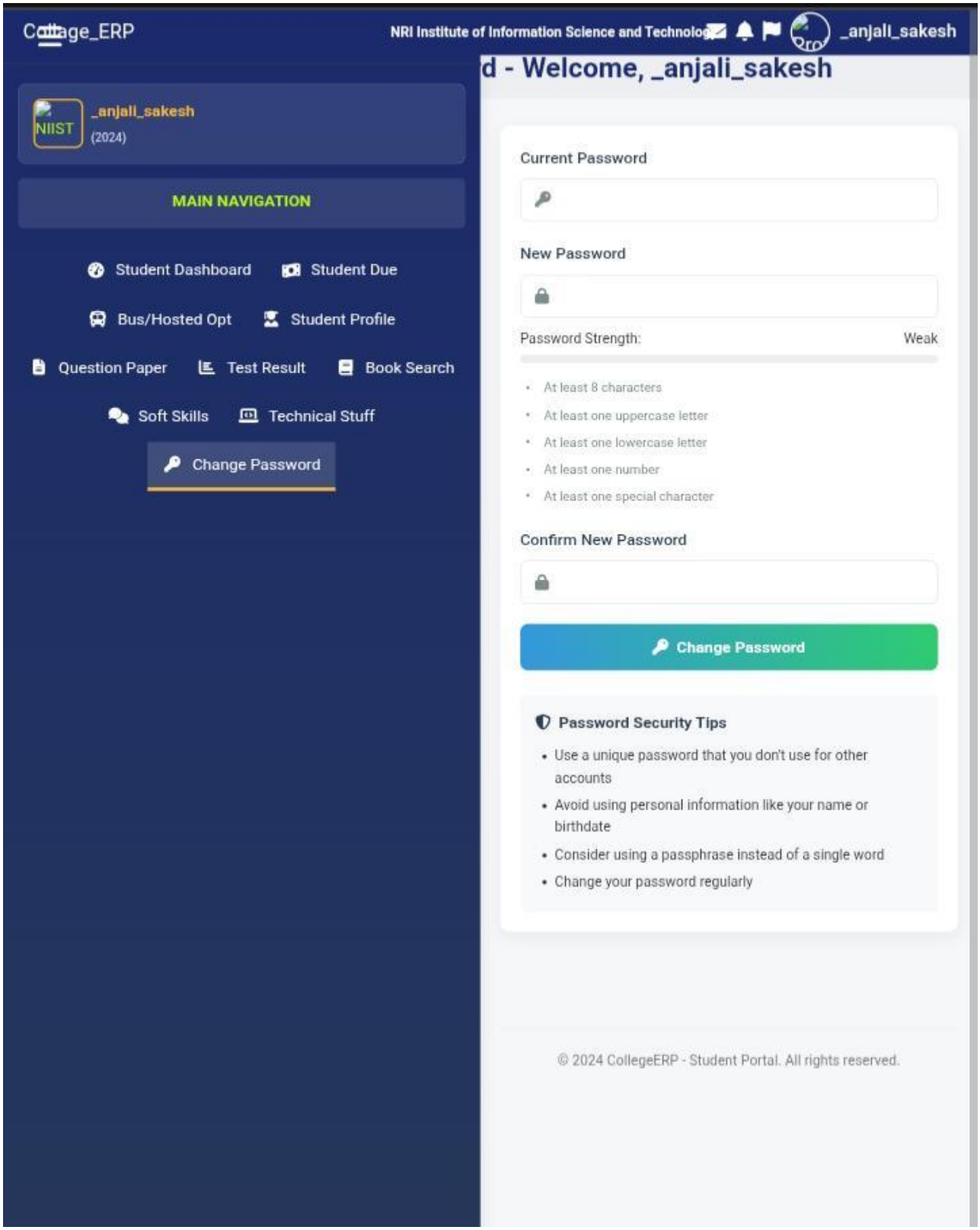
Technical Resources & Coding Platform
SU
STUDENT USER
Completed Challenges
12
Resources Accessed
28
Coding Streak
7 days
Skill Level
Intermediate
Learning Progress
JavaScript
75% Complete
15/20 Topics
Python
60% Complete
12/20 Topics
SQL
40% Complete
8/20 Topics
Practice Coding
Learning Resources
Coding Challenges
Projects
Community
Help & Support
AI Coding Assistant
Hello! I'm your AI coding assistant. How can I help you with your programming today?
Ask me anything about coding...
Learning Resources
JavaScript Fundamentals
Complete guide to JavaScript basics, ES6 features, and modern practices.
8 hours
4.8/5
Start Learning
Download
Python for Data Science
Learn Python programming with focus on data analysis and visualization.
12 hours
4.7/5
Start Learning
Download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Test Result
Book Search
Soft Skills
Technical Stuff
Change Password
Current Password
New Password
Password Strength:
Weak
At least 8 characters
At least one uppercase letter
At least one lowercase letter
At least one number
At least one special character
Confirm New Password
Change Password
Password Security Tips
Use a unique password that you don't use for other accounts
Avoid using personal information like your name or birthdate
Consider using a passphrase instead of a single word
Change your password regularly
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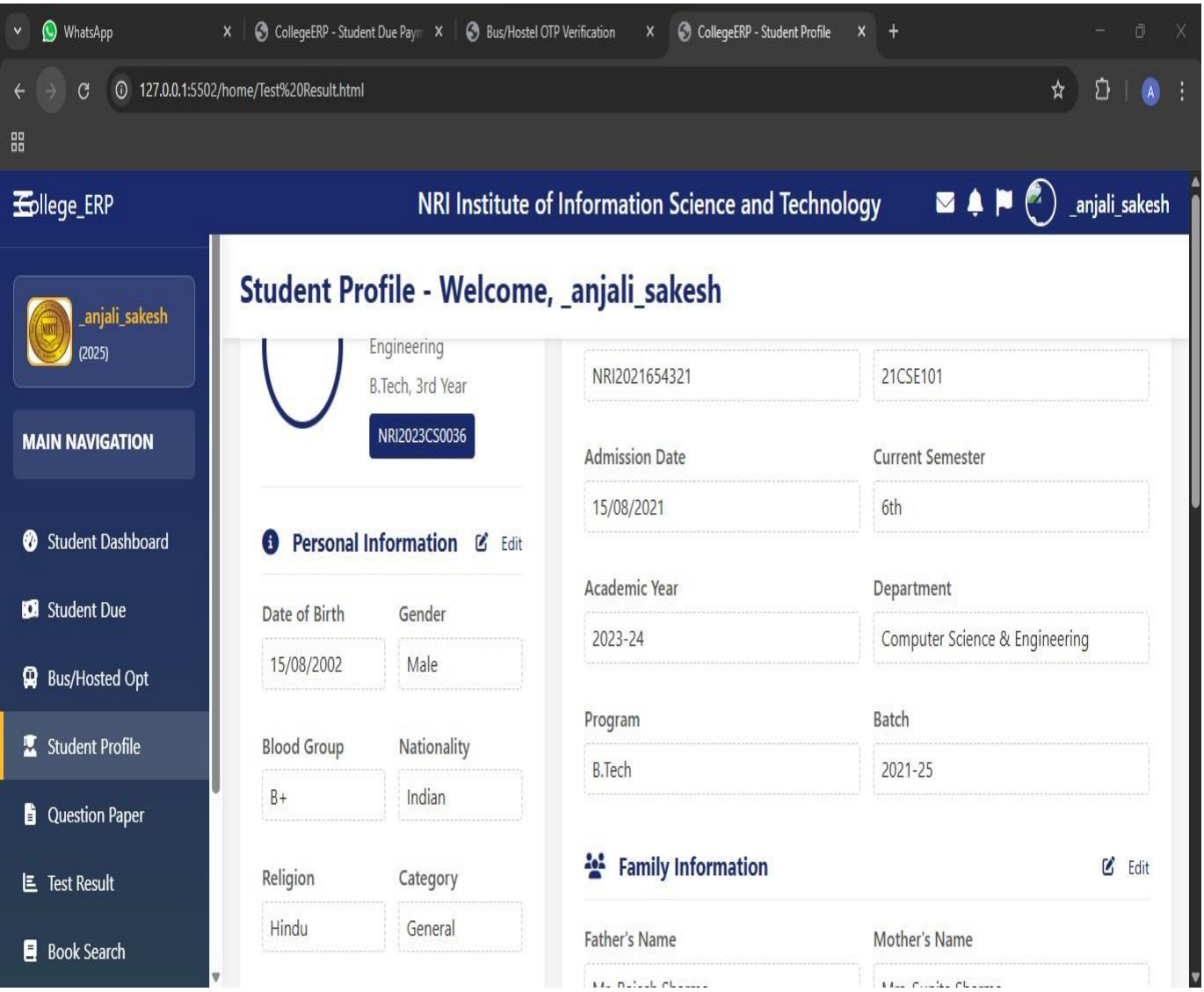
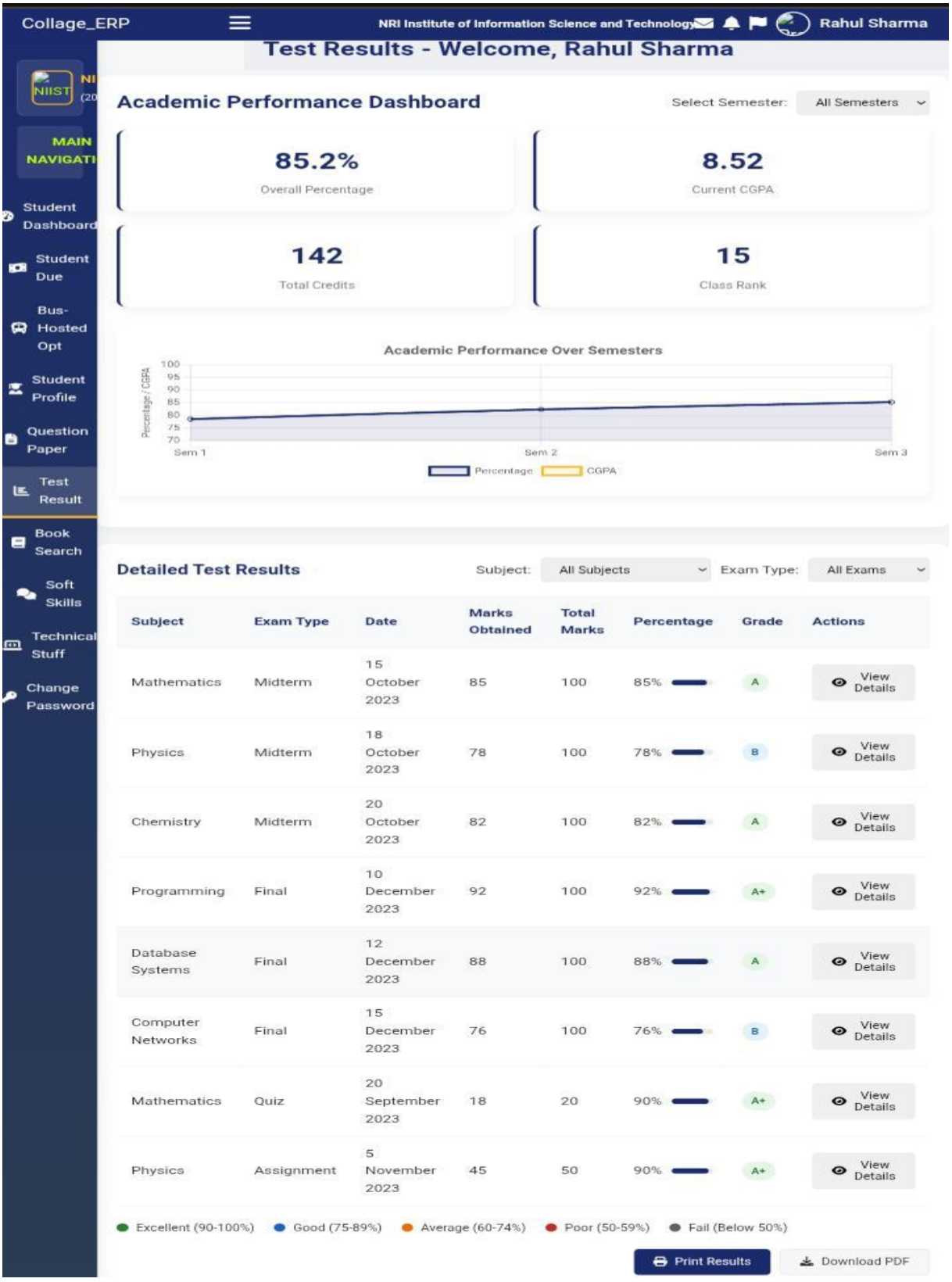

WhatsApp
CollegeERP - Student Due Payn
Bus/Hostel OTP Verification
CollegeERP - Student Profile
127.0.0.1:5502/home/Test%20Result.html
ollege_ERP
NRI Institute of Information Science and Technology
_anjali_sakesh
_anjali_sakesh
(2025)
MAIN NAVIGATION
Student Dashboard
Student Due
Bus/Hosted Opt
Student Profile
Question Paper
Test Result
Book Search
Student Profile - Welcome, _anjali_sakesh
Engineering
B.Tech, 3rd Year
NRI2023CS0036
Personal Information
Edit
Date of Birth
15/08/2002
Gender
Male
Blood Group
B+
Nationality
Indian
Religion
Hindu
Category
General
NRI2021654321
21CSE101
Admission Date
15/08/2021
Current Semester
6th
Academic Year
2023-24
Department
Computer Science & Engineering
Program
B.Tech
Batch
2021-25
Family Information
Edit
Father's Name
Mother's Name


Collage_ERP
NRI Institute of Information Science and Technology
Rahul Sharma
Test Results - Welcome, Rahul Sharma
NIIST
MAIN NAVIGATI
Student Dashboard
Student Due
Bus-Hosted Opt
Student Profile
Question Paper
Test Result
Book Search
Soft Skills
Technical Stuff
Change Password
Academic Performance Dashboard
Select Semester: All Semesters
85.2%
Overall Percentage
8.52
Current CGPA
142
Total Credits
15
Class Rank
Academic Performance Over Semesters
Percentage / CGPA
100
95
90
85
80
75
70
Sem 1
Sem 2
Sem 3
Percentage
CGPA
Detailed Test Results
Subject: All Subjects
Exam Type: All Exams
Subject
Exam Type
Date
Marks Obtained
Total Marks
Percentage
Grade
Actions
Mathematics
Midterm
15 October 2023
85
100
85%
A
View Details
Physics
Midterm
18 October 2023
78
100
78%
B
View Details
Chemistry
Midterm
20 October 2023
82
100
82%
A
View Details
Programming
Final
10 December 2023
92
100
92%
A+
View Details
Database Systems
Final
12 December 2023
88
100
88%
A
View Details
Computer Networks
Final
15 December 2023
76
100
76%
B
View Details
Mathematics
Quiz
20 September 2023
18
20
90%
A+
View Details
Physics
Assignment
5 November 2023
45
50
90%
A+
View Details
Excellent (90-100%)
Good (75-89%)
Average (60-74%)
Poor (50-59%)
Fail (Below 50%)
Print Results
Download PDF

Abstract

The NRI Compass – College Management System is a web-based application developed to simplify and automate the administrative, academic, and record-management processes of educational institutions. The system provides a centralized platform that connects various users, including students, faculty, administrators, and departmental heads, to ensure efficient communication and data handling.

This project aims to replace the traditional manual record-keeping and data management processes with a secure and user-friendly digital system. The system facilitates login access for different user roles such as Admin, Faculty, Student, Library, HR, Exam Cell, and more, allowing each user to perform specific tasks relevant to their role. Key features include secure authentication, session management, online record maintenance, and a responsive design that ensures accessibility across devices.

The proposed system is designed using HTML, CSS, and JavaScript for the front-end, ensuring an interactive and intuitive user interface. It can be integrated with back-end databases such as MySQL or Firebase for data storage and retrieval. The system enhances productivity by reducing paperwork, saving time, and minimizing human error.

Overall, NRI Compass serves as a digital gateway to manage institutional activities efficiently, improving the transparency, accuracy, and reliability of administrative and academic operations.

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