TEAM NO: 80

TECHNICAL HUB APP

STUDENT PROFILE

TEAM:

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Introduction

This profile page is your one-stop shop for everything related to your journey at Technical Hub. Built using Google Flutter technology, it provides a seamless and user-friendly experience to track your progress and achievements.

Here's what you can access and manage on your profile:

Personal Information: View and update your details like name and the technology you're pursuing at Technical Hub.

Attendance Tracking: Stay on top of your attendance with a clear record of all your sessions.

Fee Management: Easily access your fee details and track any outstanding payments.

Session History: Revisit the sessions you've attended and refresh your knowledge on covered topics.

Certification Showcase: View and proudly display all the certifications you've earned through Technical Hub programs.

Whether you're a new student or a seasoned learner, this profile page empowers you to stay informed, engaged, and motivated throughout your technical development at
Technical Hub.

How it Works:

This profile page utilizes HTTP methods to interact with our secure database. The GET method allows you to retrieve all your stored information, while the POST method
enables you to update specific details.

Get started exploring your profile and take charge of your learning experience at Technical Hub!

Overview

This project developed a student profile page for the Technical Hub mobile app using Google Flutter. It leverages HTTP methods to manage student data stored in a database.

Functionalities:

Data Retrieval (GET):

Retrieves student details like name, technology, attendance records, fee information, session history, and earned certifications.

Data Management (POST):

Allows updating specific student information (subject to defined

permissions).

Technologies Used:

Frontend:

Google Flutter - for a user-friendly and cross-platform mobile app experience.

Backend:

Database (implementation details not specified) - for secure storage and management of student data.

Communication Protocol:

HTTP - for data exchange between the app and the database using GET and POST methods.

Data Displayed:

Personal Information: Name, technology being pursued.

Attendance: Record of all attended sessions.

Fees: Details of student fees including any outstanding dues.

Session History: List of sessions attended by the student.

Certifications: Showcase of all certifications earned through Technical Hub programs.

Benefits:

Student Empowerment: Provides a central location to track progress, manage details, and view achievements.

Improved Transparency: Offers students clear visibility into attendance, fees, and learning history.

Enhanced User Experience: Flutter ensures a smooth and intuitive interface for accessing and potentially updating profile information.

Project Scope:

This overview focuses on the core functionalities of the student profile page. Further details like user authentication, specific update permissions, and errorhandling might be implemented in the complete project.

Next Steps:

Integrate user authentication for secure access to student profiles.

Implement detailed logic for updating specific student information based on permissions.

Consider incorporating visual elements like charts or graphs to represent attendance data or progress.

Project Workflow

This workflow expands on the previous one to include login and signup functionalities:

1.   User Login or Signup:

User launches the Technical Hub

app. They are presented with

twooptions:

Login: User enters existing credentials (username/password or similar) and attempts to login.

Signup: New users create an account by providing necessary details (name, email, password etc.) and follow signup instructions.

2.   User Authentication (Login):

Upon login attempt, the app initiates a request to the server (potentially using a dedicated login API endpoint).

The request includes the entered credentials.

The server authenticates the credentials against a secure user database.

4. User Signup:

Upon signup, the app sends a request to the server (potentially using a dedicated signup API endpoint).

The request includes the new user's information provided during signup.

The server validates the information and attempts to create a new user record inthe database.

6.   Profile Data Retrieval (GET):

Once logged in (or after successful signup):

The app retrieves the stored user ID and authentication token.

It initiates a GET request to the server (potentially using a profile API endpoint). The request includes the user ID and the authentication token for authorization. **The server retrieves all relevant student data associated with the user ID:**

Personal Information (name,

technology)Attendance Records

Fee Details

Session History (list of attended

sessions)Earned Certifications

The retrieved data is sent back to the app

7.   User-Interface(Flutter):

The app receives the data from the server.

The Flutter framework processes the data and formats it for

display. The profile page is populated with the student's

information:

Dedicated sections display name, technology, attendance records (potentially in tables or lists), fee details (highlighting outstanding dues if applicable), session history
(categorized by date or topic), and earned certifications.

8.   Continued Use:

The user can continue interacting with the app, accessing their profile, potentially updating information, and exploring other functionalities offered by the Technical Hub app.
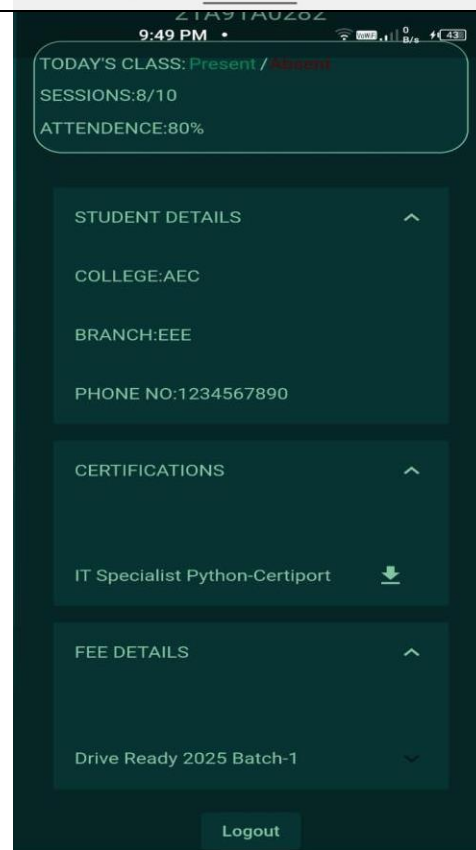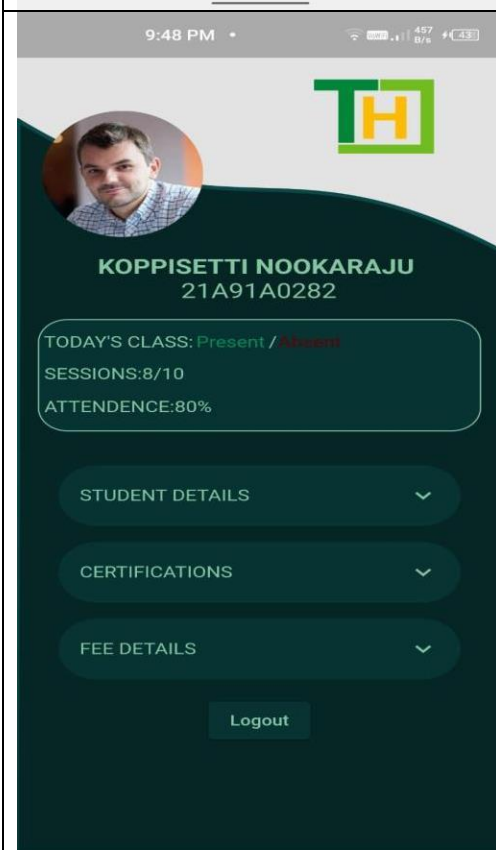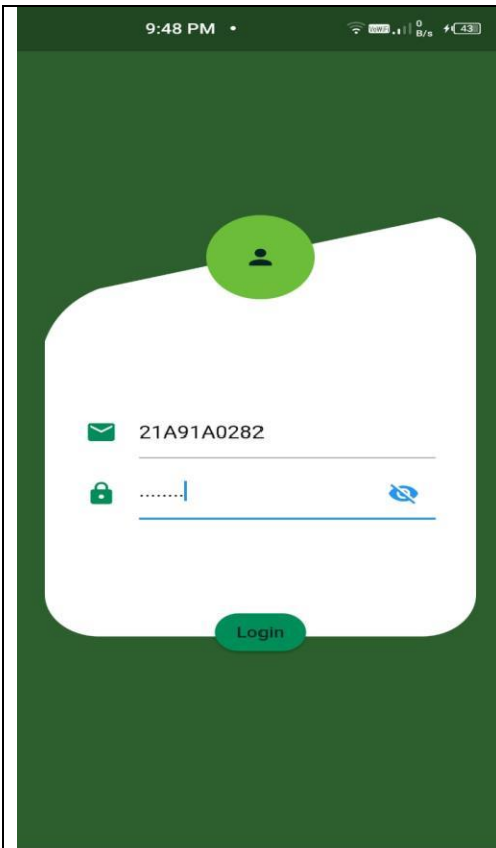
Additional Considerations:

Secure storage of user credentials (e.g., hashed passwords) on the server is crucial.

Session management mechanisms (e.g., tokens) might be implemented to maintain user login status throughout the app usage.

Error handling for unexpected situations during login, signup, and data communication is essential.

This expanded workflow provides a comprehensive overview of how your Technical Hub student profile page with login and signup functionalities operates.

Screen 1 (Login):

21A91A0282

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Login

Screen 2 (Profile):

KOPPISETTI NOOKARAJU

Rollnumber : 21A91A0282
College : AEC
Branch : EEE
Passout Year : 2025
Email : 21A91A0282@aec.edu.in

MORE

Login successful

Screen 3 (Dashboard):

KOPPISETTI NOOKARAJU
21A91A0282

TODAY'S CLASS: Present / Absent
SESSIONS:8/10
ATTENDENCE:80%

STUDENT DETAILS

CERTIFICATIONS

FEE DETAILS

Logout

Screen 4 (Details):

21A91A0282

TODAY'S CLASS: Present / Absent
SESSIONS:8/10
ATTENDENCE:80%

STUDENT DETAILS

COLLEGE:AEC

BRANCH:EEE

PHONE NO:1234567890

CERTIFICATIONS

IT Specialist Python-Certiport

FEE DETAILS

Drive Ready 2025 Batch-1

Logout

Tools Used

Frontend:

Stack: allows us to overlap multiple widgets

- **Clipper**: allows developers to clip off portions of widgets and shapes, thereby delivering a desired shape.

- **List-Tile**: efficiently creating scrollable lists or grids of items.

- **Expandable-List-Tile**: to expand or collapse the view in list items.

- **Plugins**: allow Flutter apps to communicate with device features or native functionality

- **Lotties**: provides us with plenty of high quality animation assets which we can easily integrate or embed in our flutter apps.

- **Elevated Buttons**: to add dimension to otherwise mostly flat layouts

Backend:

- POST METHODS ARE USED TO FETCH THE DATA FROM BACKEND

- API INTEGRATION WITH 4 API KEYS:

- LOGIN

- STUDENT DETAILS

- CERTIFICATIONS

- FEE DETAILS

Advantages

A well-crafted student profile offers numerous advantages, both during your academic journey and in your professional life. Here are some key benefits:

1. Showcases Skills and Achievements:

- Highlights your academic accomplishments, extracurricular activities, and skills.

- Demonstrates your strengths and unique qualities to potential employers

  or academic Institutions.

2. Enhanced Visibility:

- Increases your visibility to recruiters, professors, and potential collaborators.

- Helps you stand out in a competitive environment.

3. Networking Opportunities:

- Facilitates connections with peers, mentors, and professionals in your field of interest.

- Provides a platform for building a professional network early in your career.

4. Professional Development:

- Encourages self-reflection and goal setting.

- Helps you track your progress and identify areas for improvement.

5. Ease of Application Process:

- Streamlines the process of applying for internships, scholarships, and jobs.

- Provides a ready reference for writing resumes, cover letters, and application essays.

6. Online Presence:

- Enhances your online presence, especially if your profile is on professional

networking sites

like LinkedIn. Allows others to learn about your qualifications and experience

Use Cases

A student profile can be used in various contexts to enhance both academic and professional opportunities. Here are some specific use cases:

1. Job Applications:

- Resume Building: Provides a comprehensive summary of your skills, experiences, and achievements, making it easier to create a strong resume.

- Cover Letters: Offers content and examples to highlight your suitability for a particular job role in cover letters.

- Interviews: Serves as a reference for discussing your background and experiences during job interviews.

2. Internship Applications:

- Portfolio: Showcases relevant projects, coursework, and skills to secure internships in your interviews.

- Networking: Helps you connect with potential employers and professionals who can offer internship opportunities.
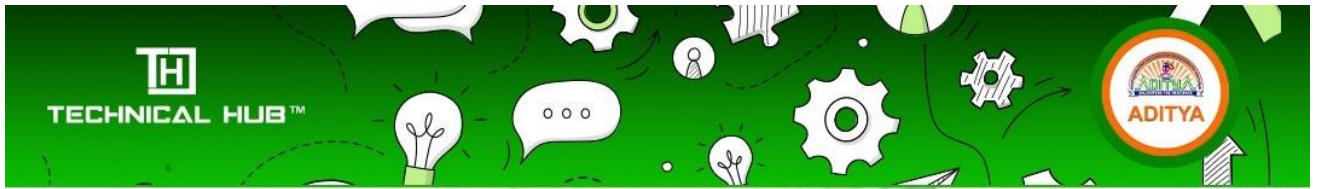
3. Academic Applications:

- College/University Admissions: Provides a detailed overview of your academic achievements, extracurricular activities, and personal interests to strengthen your application.

- Scholarships: Demonstrates your qualifications and commitment to academics andcommunity involvement, increasing your chances of

receiving scholarships.

4. Professional Networking:

- LinkedIn Profile: Enhances your online presence and helps you connect with industry professionals, alumni, and peers.
- Networking Events: Offers a summary of your skills and experiences to share during net working events and professional conferences.
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Conclusion

A well-developed student profile is a powerful tool that can significantly enhance both academic and professional opportunities. It provides a comprehensive overview of your skills, achievements, and experiences, making it easier to showcase your strengths and unique qualities. This profile can streamline the application process for jobs, internships ,scholarships, and academic programs, while also aiding in interview preparation and professional networking.

By maintaining an up-to-date and detailed student profile, you can effectively market yourself to potential employers, academic institutions, and collaborators. It not only
increases your visibility and networking opportunities but also aids in personal branding and career clarity. Ultimately, a robust student profile serves as a foundation for personal and professional development, helping you achieve your goals and aspirations.