



Hawassa University IOT Campus

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Project Proposal: ExamHub Android Application for Grade 12 Students

1. App Name & Tagline

App Name: ExamHub

Tagline: "Learn. Practice. Excel — Your smart companion for exam success."

2. Problem Statement

Grade 12 students in Ethiopia preparing for national examinations often rely on traditional paper-based study methods. These approaches offer limited opportunities for self-assessment, lack instant feedback, and are not easily accessible outside the classroom. As a result, students struggle to evaluate their progress, identify weak areas, and maintain consistent study habits.

Additionally, the scarcity of engaging and interactive learning platforms contributes to low motivation and ineffective preparation. Students need a modern, mobile-based tool that makes exam preparation more convenient, interactive, and feedback-driven.

User Persona: Our user is Helina, an 18-year-old high school student living with her parents who wants to improve her academic performance by practicing subject-based quizzes but struggles to find effective exam practice materials, leading to frustration.³

Proposed Solution

ExamHub is an Android application designed to help Grade 12 students prepare for their exams effectively. It provides an interactive quiz-based platform where students can select subjects, answer multiple-choice questions, and instantly receive feedback on their performance. The app's offline functionality ensures accessibility even in areas with limited internet connectivity, making it suitable for a wide range of students.

The main goal of ExamHub is to make learning more personalized, engaging, and efficient by combining the convenience of mobile technology with the principles of self-paced education. The app will also serve as a foundation for future integration of analytics, progress tracking, and adaptive learning technologies.

4. Core Features (Minimum Viable Product - MVP)

The initial version of **ExamHub** aims to deliver essential functionalities that ensure the app is practical, user-friendly, and beneficial for students. One of the standout features is its **offline functionality**, allowing students to take quizzes without needing an internet connection. This ensures accessibility and convenience, especially in areas with limited connectivity.

Core Features

- **Register Screen:** Allows new users to create accounts, ensuring a secure and personalized experience.
- **Login Screen:** Facilitates access for registered users, ensuring their data and progress are saved.
- **Home Screen:** Designed for Grade 12 students, this screen offers subject selection tailored to their curriculum, making navigation intuitive.
- **Quiz Screen:** Displays multiple-choice questions relevant to the selected subject, providing a dynamic and engaging learning experience.
- **Result Screen:** Shows the user's score along with detailed feedback on their performance, helping them identify areas for improvement.

Future Enhancements

Looking ahead, we plan to incorporate several enhancements to further enrich the user experience:

- **User Accounts:** Personalized experiences based on user profiles and preferences.
- **Leaderboards:** Introduce a competitive element by allowing users to see how they rank against peers.
- **Cloud Database Integration:** Enable dynamic updates of questions and content, ensuring that users always have access to the latest material.

5. Team Members & Roles

Name	ID Number	Role
Elsaye Arba	0486/15	Implement user registration, login functionalities, and database integration
Destaye Andegna	0431/15	Develop the result screen to show scores and feedback
Kaleb Wondimu	0800/15	Implement the home screen with subject selection
Biruk Bedilu	0325/15	UI/UX Designer and backend logic developer
Adan Mohammed	1671/15	Create the quiz screen to display multiple-choice questions

Supporting Tools and Resources

The following industry-standard tools will be used to support the project lifecycle from design to deployment:

- Android Studio – For application development and testing.
- Java – Core programming language for backend logic.
- XML – For user interface design and layout.
- Figma – For wireframe and UI design prototypes.
- Jira – For agile task tracking, sprint planning, and team collaboration.
- GitHub – For version control, documentation, and code sharing.

Figma Link: [<https://www.figma.com/design/1Ja4s1hNFJbbJyq0XNGnIu/Untitled?node-id=0-1&p=f&t=vCZvETDoZ0jPcP8Y-0>]

Jira Link:[<https://elsayearba.atlassian.net/jira/software/projects/EMA/boards/34>]

GitHub Repository

A GitHub repository named ' ExamHub Mob App' will be created. It will include a professional README file with project details, links to the Figma design and Jira board, and a /docs folder containing this proposal. The instructor will be added as a collaborator.

Conclusion

ExamHub aims to enhance learning and exam preparation for Grade 12 students by providing a simple, engaging, and effective quiz-based platform. This project reflects the integration of technology and education through mobile development, encouraging independent learning and academic excellence. By following professional practices using Figma, Jira, and GitHub, the project aligns with real-world software development standards.