**University Review Platform**

# **Abstract**

The University Review Platform is a comprehensive mobile application designed to facilitate students in Jordan to post and browse anonymous reviews about universities and professors. Built using Flutter and Firebase, this platform aims to provide a reliable and user-friendly environment where students can share their honest feedback, helping prospective students make informed decisions about their education. The application includes features such as user authentication, a star rating system, detailed reviews for universities and professors, and robust filtering and sorting options. Anonymity is assured to encourage genuine feedback. Future enhancements include advanced filtering options, integration with university databases for professor verification, multi-language support, and detailed analytics for educational institutions. This platform not only aids students in choosing the right universities and professors but also promotes a culture of transparency and continuous improvement in the academic community.

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# 1. Introduction

## 1.1 Background

The University Review Platform is a comprehensive mobile application designed to facilitate students in Jordan to post and browse reviews about universities and professors. The application aims to provide an anonymous space where students can share their honest feedback, helping prospective students make informed decisions about their education.

## 1.2 Purpose

The primary purpose of this project is to create a reliable and user-friendly platform for university and professor reviews. By maintaining anonymity, the platform encourages genuine feedback, which can be invaluable for both students and educational institutions.

## 1.3 Scope

The platform focuses on universities in Jordan, including the University of Jordan, University of Petra, Princess Sumaya University for Technology, German Jordanian University, Luminus, and Techno University. The application allows users to leave reviews for both universities and specific professors within these institutions.

# 2. Features and Functionality

## 2.1 User Authentication

The application includes robust user authentication features, allowing users to sign up and log in securely. Firebase Authentication is used to manage user credentials, ensuring that user data is protected.

## 2.2 University and Professor Reviews

### 2.2.1 University Reviews

Users can leave reviews for universities, providing a rating out of five stars and writing detailed feedback about their experiences. The reviews are stored in a structured format in Firebase Firestore, making it easy to retrieve and display reviews.

### 2.2.2 Professor Reviews

For professor reviews, users need to specify the university, professor name, and course code. They can also optionally include the grade they received. This structured approach ensures that reviews are specific to particular courses and professors, providing more targeted feedback.

## 2.3 Anonymity Assurance

To encourage honest reviews, the platform ensures user anonymity. Reviews are stored without any identifiable information, and users are not required to provide personal details beyond their login credentials.

## 2.4 Rating System

The platform includes a star rating system for both universities and professors. Users can rate their experiences on a scale of one to five stars, which helps in quickly assessing the quality of education and teaching.

## 2.5 Review Browsing and Filtering

### 2.5.1 University Reviews

Users can browse reviews for specific universities. The platform displays the average rating for each university and allows users to read individual reviews.

## 2.6 Notifications and Reminders

The platform includes friendly reminders for users to leave constructive and honest reviews. This feature helps maintain the quality and usefulness of the feedback provided on the platform.

## 2.7 Thank You Animation

After submitting a review, users are greeted with a thank-you animation, adding a pleasant user experience and encouraging continued engagement with the platform.

# 3. Technical Details

## 3.1 Technology Stack

### 3.1.1 Flutter

The application is built using Flutter, a popular framework for building natively compiled applications for mobile, web, and desktop from a single codebase. Flutter's expressive UI components and fast development cycle make it an ideal choice for this project.

### 3.1.2 Firebase

Firebase is used for backend services, including authentication, Firestore database, and hosting. Firebase's seamless integration with Flutter simplifies the development process and ensures a scalable and secure backend.

## 3.2 Project Structure

The project is organized into several directories, each responsible for different aspects of the application:

* **models**: Contains data models used throughout the application.
* **screens**: Contains the various screens (pages) of the application, such as login, signup, home, and review forms.
* **widgets**: Contains reusable UI components used across different screens.
* **constants.dart**: Stores constant values used throughout the application.
* **firebase\_options.dart**: Contains Firebase configuration details.
* **main.dart**: The entry point of the application.

## 3.3 Version Information

* **Flutter Version**: 3.19.5
* **Dart Version**: 3.3.3

# 4. Future Work

## 4.1 Enhanced Filtering and Sorting

Future versions of the platform could include more advanced filtering and sorting options, allowing users to find reviews based on various criteria, such as review length, specific keywords, or overall helpfulness.

## 4.2 Integration with University Databases

To enhance the accuracy and reliability of professor reviews, the platform could integrate with university databases to verify professor identities and courses. This would ensure that only legitimate reviews are posted.

## 4.3 Mobile App Expansion

While the current application is focused on universities in Jordan, future versions could expand to include universities from other regions. This expansion would require additional backend infrastructure to handle the increased data load.

## 4.4 User Engagement Features

To increase user engagement, the platform could introduce features such as review upvoting, comments on reviews, and user badges for frequent reviewers. These features would encourage more active participation and make the platform more interactive.

## 4.5 Enhanced Security Measures

Although the platform ensures anonymity, additional security measures such as two-factor authentication and enhanced data encryption could be implemented to further protect user data and ensure the integrity of the reviews.

## 4.6 Multi-language Support

Introducing multi-language support would make the platform accessible to a broader audience. Users could choose their preferred language for both the UI and reviews, enhancing the usability of the platform.

## 4.7 Detailed Analytics and Insights

Providing detailed analytics and insights for universities and professors based on the reviews could be an added feature. This would involve creating dashboards that display trends, average ratings over time, and other useful metrics.

# 5. Conclusion

The University Review Platform is a significant step towards creating a transparent and reliable system for students to share their educational experiences. By providing a secure and anonymous platform for reviews, it helps prospective students make informed decisions and encourages universities and professors to maintain high standards of education. With planned future enhancements, the platform aims to become an essential tool for the academic community, fostering a culture of feedback and continuous improvement.