

Departments of Software Engineering

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Mobile application development assignment **Title**:wollo university information application

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Problem statement

Wollo University is a leading higher education institution that is committed to providing its students with an exceptional learning experience. However, students often face difficulties in accessing important information such as dorm placements, student ID view, departmental information, student club details, university maps, and gallery. The current system for disseminating this information is outdated, and students have to go through a tedious process to get the information they need. This results in a lack of awareness among students about the available resources and services on campus.

To address this problem, we propose the development of a mobile application that provides students with easy and quick access to all the necessary information. This mobile application will be specifically designed for Wollo University and will provide a user-friendly interface that can be easily accessed on students' smartphones. The mobile application will be available for download on both Android and iOS platforms.

The mobile application will have multiple features to provide students with relevant information. First, the application will provide information about dorm placements, including the location and availability of dorms, and allow students to view and select their preferred dorms. This feature will save students time and make it easier for them to find the right dorm.

Second, the mobile application will provide students with access to their student ID, making it easier for them to access university facilities such as the library and gym. This feature will also reduce the risk of students losing their physical ID cards.

Third, the mobile application will provide information about the various departments and programs offered by Wollo University. Students will be able to view details about the programs, admission requirements, and other relevant information.

Fourth, the mobile application will provide information about the various student clubs on campus. This will include information about the different clubs available, their activities, and how to join them. This feature will encourage student engagement and promote a sense of community among students.

Fifth, the mobile application will provide a map of the university campus, including the location of buildings, facilities, and landmarks. This feature will make it easier for students to navigate the campus, especially for new students.

Finally, the mobile application will allow students to send feedback to the university administration using email. This feature will make it easier for students to communicate their concerns and suggestions to the administration, thus improving the overall student experience.

In conclusion, the proposed mobile application will provide students with an efficient and convenient way to access important information and services at Wollo University. It will save students time and make it easier for them to navigate the campus and find the resources they need. Additionally, the feedback feature will promote better communication between students and the university administration, thus improving the overall student experience.

Significant of project

The mobile application for Wollo University is a significant project that has the potential to provide numerous benefits to both the university and its students. In this section, we will discuss the significant benefits of the project in detail.

- 1. Improved Student Experience: The mobile application will significantly improve the student experience at Wollo University. The easy-to-use interface and availability of important information such as dorm placements, departmental information, and club details, will make it easier for students to navigate campus life. The feedback feature will also allow students to communicate their concerns and suggestions to the university administration, thus improving the overall student experience.
- 2. Time-Saving: The mobile application will save students time by providing easy access to important information. For example, students will be able to view their student ID and access university facilities such as the library and gym without having to carry their physical ID card. The dorm placement feature will also save students time by allowing them to easily view and select their preferred dorms.
- 3. Increased Student Engagement: The mobile application will increase student engagement by providing information about the various student clubs on campus. Students will be able to view details about the different clubs available, their activities, and how to join them. This feature will encourage student participation in clubs and promote a sense of community among students.
- 4. Efficient Communication: The mobile application will provide a platform for efficient communication between students and the university administration. The feedback feature will allow students to send their feedback, concerns, and suggestions to the administration through email. This feature will improve communication and promote a better understanding of the needs of students among the administration.
- 5. Improved Efficiency: The mobile application will improve the efficiency of the current system of disseminating information to students. The current system is outdated and not easily accessible to students. The mobile application will provide a modern and efficient way to provide students with the necessary information.
- 6. Cost-Effective: The mobile application will be cost-effective for both the university and its students. The current system of disseminating information requires significant resources such as printing and distribution costs. The mobile application will eliminate these costs and provide a more cost-effective solution for the university.

In conclusion, the mobile application for Wollo University is a significant project that has the potential to provide numerous benefits to both the university and its students. The project will improve the student experience, save time, increase student engagement, improve communication, improve efficiency, and be cost-effective. The mobile application will provide a modern and efficient way for students to access important information and services at Wollo University.

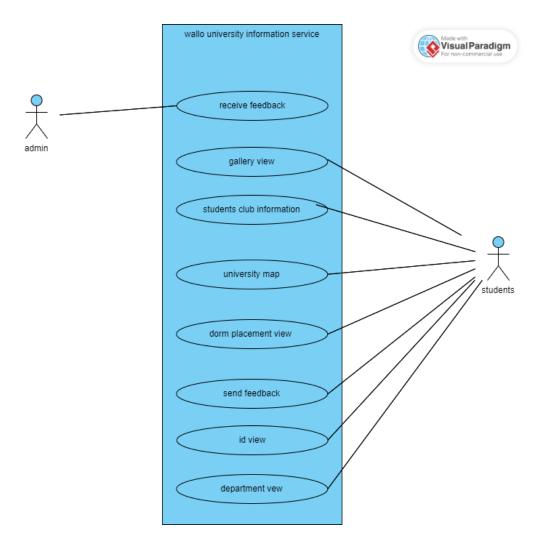
Functional requirements

Functional requirements are the specific functionalities that a software application must provide to meet the needs of its users. In the case of the mobile application for Wollo University, there are several functional requirements that the application must satisfy to be effective and useful for students. In this section, we will discuss each functional requirement in detail.

- 1. Dorm Placement Feature: The dorm placement feature is an essential function of the mobile application for Wollo University. The feature should provide information about the available dorms on campus, including their locations, available spaces, and rental fees. The application should allow students to view and select their preferred dorms from the application. This feature will save students time and eliminate the need to physically visit the dormitories to select a room.
- 2. Student ID View: The student ID view feature should provide students with access to their student ID through the application. The student ID should include the student's name, and student ID number.
- 3. Departmental Information: The application should provide information about the various departments and programs offered by Wollo University. Students should be able to view details about the programs and other relevant information. This feature will help students make informed decisions about their course of study and improve their overall academic experience.
- 4. Student Clubs Information: The student clubs information feature should provide information about the various student clubs on campus. Students should be able to view details about the different clubs available, their activities, and how to join them. This feature will encourage student participation in clubs and promote a sense of community among students.
- 5. University Map: The university map feature should provide a map of the university campus, including the location of buildings, facilities, and landmarks. The map should be interactive and allow students to zoom in and out for better navigation. This feature will help students find their way around campus and locate various facilities and landmarks.
- 6. University Gallery: The university gallery feature should provide a gallery of pictures and videos related to Wollo University. This feature will allow students to view the university's facilities, events, and activities. The gallery will help students get a feel for the university's culture and overall experience.

- 7. Feedback Feature: The feedback feature should allow students to send feedback to the university administration using email. The feedback feature should be easily accessible and allow students to provide feedback on various aspects of campus life. This feature will promote open communication between students and the administration, leading to improvements in the overall student experience.
- 8. Compatibility: The compatibility feature should ensure that the application is compatible with both Android and iOS platforms. This feature will ensure that students using either platform can access the application and benefit from its functionalities.
- 9. User Interface: The user interface feature should provide a user-friendly interface that is easy to navigate. The interface should be visually appealing, and the application should be designed with user experience in mind. This feature will ensure that students find the application easy to use and that the application provides a positive user experience.

In conclusion, the functional requirements of the mobile application for Wallo University are critical to ensuring that the application meets the needs of its users. The application must provide essential functionalities such as the dorm placement feature, student ID view, departmental information, student clubs information, university map, university gallery, feedback feature, user authentication and security, compatibility, and user interface. These functionalities will make the application user-friendly, efficient,



Non-functional requirements

Non-functional requirements are the performance characteristics and attributes that a software application must meet to be considered successful. These requirements are not directly related to the application's functionality but instead focus on aspects such as usability, reliability, and performance. In the case of the mobile application for Wollo University, the non-functional requirements are:

- 1. Usability: The usability of the mobile application is crucial to ensuring that students can easily access the information they need. The user interface should be simple, intuitive, and easy to navigate. Students should be able to find the information they need quickly, without having to click through multiple screens or menus. The application should be designed with the user experience in mind, ensuring that students can use it without any prior training or assistance.
- 2. Reliability: The reliability of the application is essential to ensure that students can access the information they need at any time. The application should be available to students

- 24/7 without any downtime or unexpected outages. In case of any technical issues, the application should have a backup system in place to ensure continuity of service.
- 3. Performance: The performance of the application is essential to ensure that it can handle a high volume of traffic without crashing or slowing down. The application should be optimized to minimize data usage and battery drain. The application should also be able to handle multiple users accessing it simultaneously without any lag or delays.
- 4. Compatibility: The compatibility of the application is crucial to ensure that it can be used by students with different devices, operating systems, and internet browsers. The application should be tested thoroughly on various platforms to ensure that it works as intended on all devices. The application should also be updated regularly to ensure that it remains compatible with the latest devices and operating systems.
- 5. Accessibility: The accessibility of the application is vital to ensure that it can be used by all students, including those with disabilities. The application should comply with accessibility standards and guidelines, such as the Web Content Accessibility Guidelines (WCAG). The application should be designed with accessibility features, such as alternative text for images, keyboard navigation, and screen reader compatibility.
- 6. Scalability: The scalability of the application is critical to ensure that it can accommodate the university's growth. The application should be designed to handle a growing number of users and data without any performance issues. The application should also be flexible enough to accommodate new features and functionality as the university's needs evolve.
- 7. Maintainability: The maintainability of the application is essential to ensure that it remains up to date and functional. The application should be designed with modular code that is easy to modify and debug. The application should also have proper documentation, such as code comments and user manuals, to make it easier for developers to maintain and update the application.

In conclusion, the non-functional requirements of the mobile application for Wollo University are essential to ensuring that the application provides a positive user experience. The application must be usable, reliable, performant, compatible, accessible, scalable, and maintainable. These requirements will help ensure that the application meets the needs of its users while also being robust and easy to maintain.

My suggestion

My mobile app teacher is suggestion many thing for our application .these are

1. Offline Access: Offline access refers to the ability of the mobile application to allow students to access essential information such as dorm placements, university maps, and club information even when they don't have an internet connection. This feature is particularly useful for students who may not have access to reliable internet service or are in areas with poor connectivity.

- 2. Photo of Place: This feature allows students to view photos of different locations within the university, including dorms, classrooms, and common areas. This can be helpful for students who are new to the university and want to get a better idea of what to expect.
- 3. Additional Services: This feature allows the mobile app to offer additional services beyond the basic information provided, such as department information, feedback, gallery and so on. This can make the mobile app more useful and valuable for students.

Conclusion

In conclusion, the development of a mobile application for Wollo University is a significant project that aims to provide numerous benefits to both the university and its students. The proposed application will offer an efficient and convenient way for students to access important information and services, such as dorm placements, student ID view, departmental information, student club details, university maps, and gallery. The application will save students time, increase engagement, improve communication, and be cost-effective.

To ensure the success of the project, the functional requirements of the application must be carefully designed and implemented. The application must provide a user-friendly interface, be accessible on both Android and iOS platforms, and satisfy the specific functionalities required by the users. The success of the project will depend on the effective implementation of the functional requirements, as they will directly impact the usability and effectiveness of the application. Overall, the proposed mobile application for Wollo University has the potential to significantly enhance the student experience and improve the efficiency of the current system of disseminating information to students.

References

https://online.visual-paradigm.com/drive/#diagramlist:proj=0&dashboard