

The University of Nevada, Reno
Department of Computer Science and Engineering
CS 426: Senior Projects in Computer Science
Project Part #4: Demonstration



Team 5B
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1.0 Implemented User Stories

1. As a student user, I expect to create an account on the Optimum Property Fix website. (Araam Zaremenhjardi)
2. As an administrative user, I expect to create an account on the Optimum Property Fix Website. (Araam Zaremenhjardi)
3. As a student user, I expect to log in & log out of the Optimum Property Fix website. (Araam Zaremenhjardi)
4. As an administrative user, I expect to log in & log out of the Optimum Property Fix Website. (Araam Zaremenhjardi)
5. As a student user, I expect to view a FAQ section that I can use as a quick reference and help navigate the Optimum Property Fix website. (Joanna)
6. As an administrative user, I expect to view a FAQ section that I can use as a quick reference and help navigate the Optimum Property Fix website. (Joanna)

2.0 Future User Cases to be Implemented

The use cases are not yet implemented but will most likely be by the time of the internal demo in this class are listed in Table 1.

Table 1: The use cases that will be implemented with associated descriptions and team member responsibilities by the end of the class.

ID	Use Case	Description	Responsibility
UC01	Reset Password (Admin & Student)	The user may also create a new password in case they are unable to login into their account with entered credentials.	Araam
UC02	View Tickets (Admin)	Admin users will be able to view all tickets submitted by student and administrator users in a table. The table will show the ticket's name, ticket status, identification number, severity, date requested, and location.	Araam

UC03	View Tickets (Student)	Student users will be able to view all current and previous tickets they have submitted in a table. The table will show tickets' names, ticket status, identification number, severity, date requested, and location.	Araam
UC04	Update Ticket Status (Admin)	Admin users will be able to modify tickets by updating the status of a ticket.	Araam
UC05	Add Facility Notes to Ticket (Admin)	Admin users will be able to attach notes to a ticket that only other admin users can see.	Araam
UC06	Logical Delete Ticket (Admin)	Admin users will be able to delete student tickets but will not be fully deleted within the database.	Araam
UC07	The Navigation Changes (Admin and Student)	The navigation changes to a bottom bar or sidebar depending upon whether the device is a mobile or desktop device.	Araam
UC08	View Appointments (Student)	The student user will be able to view their maintenance appointment under the Appointments page.	Joanna
UC09	Create & View Appointments (Admin)	The admin will be able to create and view appointments on the appointments page.	Joanna
UC10	View Analytics (Admin)	The admin will be able to view meaningful analytics on the Analytics page.	Joanna
UC11	View Dashboard (Student & Admin)	The dashboard page will have a ticket summary and have any recent activity.	Joanna
UC12	Submit & View Feedback (Student & Admin)	The admin will have a feedback page where they'll be able to see feedback from the user. The user will only be able to see their feedback on a ticket.	Joanna
UC13	Submit FAQ (Admin)	The form page will have a frequently asked question form that will render that information on the student page.	Joanna
UC14	Send Appointment Reminder	When an admin assigns an appointment time, an email is sent to the student	Joanna

		about the appointment to service their issue.	
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3.0 Summary of Current Project Status

The progress made towards the development of OPF would be the implementation of application features with further redesigns slated for frontend and database. Implementation of application features is for user authentication, account creation, additional web pages, and the development of a communication pipeline to add student user tickets to the database.

Implementation of application features is session functionality, giving users the ability to create a new account, create form pages for admin users, and build a basic pipeline for communication between the frontend and backend subsystems of OPF. Session functionality allows for users to sign in and sign out of OPF with the frontend having a JSON web token used by the backend to authenticate access to database information. Account creation was implemented within OPF allowing users to have a portal to create their own accounts with user information and credentials being saved to a database. Additional web pages added are for admin users being forms for adding new announcements and frequently asked questions for student users. The form webpages do not communicate to the backend and currently, information is console logged in the web browser. Changes done to one of the application's ticket functionality are the further development of a communication pipeline to the database. Student users are now able to create tickets that are saved to the backend with their accounts tied to the ticket.

4.0 Contributions of Team Members

Araam Zaremehjardi's Contribution

Araam Zaremehjardi's total time worked on the development of OPF consists of frontend development for the user interface and making elements stateful in the application. Some backend development includes creating the routes for the REST API and developing a communication pipeline between the frontend and backend for account creation. The time contributed to the project developed since the December 2021 demonstration is 1000 hours.

Joanna Lopez's Contribution

Joanna Lopez's total time worked on the development of OPF consists of some frontend development and backend development. Frontend development in the frontend consisted of creating the forms page for admin users to create new frequently asked questions and new

announcements to student users. Backend development of OPF includes anything related to the database such as database models and database queries. At the request of team members, Joanna had created database queries for particular needs. The time contributed to the project developed since the December 2021 demonstration is 700 hours.