Software Development Life Cycle (SDLC) (Agile model)

Define

The name of the project is Anita and Catlyn's car rental. The purpose was to create a car rental website where we serve people who require a temporary vehicle at low costs, such as those who do not own cars, travelers who are out of town, or owners of damaged or destroyed vehicles awaiting repair or insurance compensation. It was extremely important for us to make sure we built all these features within the deadline. Ensuring the website is responsive to all browsers and software was essential to us, so we spent some time on CMS, heuristic designs, responsive websites, etc.

Reason for the team -each team member has various skills and knowledge which helps the team with balancing workload and assigning different roles and responsibilities.

Group goals = To create a high-quality online car booking(reservation) website where users can go make an account to make reservations for cars at their desired time and location.

It displays all the available cars on the home page from the database whereas the users cannot view unavailable cars until and unless the user returns the rental car.

* The project is divided into two categories: Customer Login and Employee Login. In an overview of this web app, the employee has full control of the system. Talking about the project, a customer can simply log in or register their accounts.
* He/she can view available cars, select any one and proceed for rental after selecting various conditions, dates, etc. After all, the customer can rent a car by filling up the given forms.
* The customer can view all his rental records and history once after logging onto the system. In addition, the customer needs to return the cars using the system because all the records are carried throughout the system. At last, the system prints an invoice stating all the information with total costs. Employee Panel
* Similarly, an employee plays the main role in implementing the system. An employee has the right to view all bookings, drivers, and cars.
* To add a car for rental purposes, an employee must provide a car name with its number plate, fare-related information, and car image too. Also, for adding driver records, he/she must provide his/her name with driving license number, contact information, and gender.
* Finally, an admin can view all the system data such as bookings, car details, availability, and driver information. Available Features: • Customer Login/Register • Employee Login/Register • Display all available cars • Various price range • Rent cars • View rental history • Return cars • Total amount calculations according to days and miles • Add and view rental cars • Add and list driver records • View overall bookings

Deliverables: We will be successful when… All the members work together to reach the group goals, communicate with each other, solve problems in a group, and deliver the project within the deadlines.

Feature lists

* The main page to see available cars
* Tab for home
* Tab for employees to log in
* Tab for customers to log in and sign up
* Tab FAQ
* Tab Contact us
* Adding to car booking
* AC and Non-AC fare
* Returning the rented cars
* Control panel to add drivers
* View History purchases
* Add cars
* Logout button
* Database
* Hashed Passwords

Design

We created frameworks for designing where and how the feature should be implemented throughout our page. Coming up with ideas to add or remove the feature from a certain part of the pages was difficult.

The design needed was for:

* Main page layouts
* Database
* Customer contact page
* CSS
* Car’s pics
* Login
* Sign up
* Background for all the pages

Coding

We both did coding equally for all the features. We had a lot of roadblocks on how we wanted to implement code different ideas that we have never done before. We used many different tech stacks, we spend quite a time researching different ideas different coding examples, and how we want to come up with our own. We have roadblocks to getting git together. Caitlyn was having a problem not being able to get the database working for her. We used PHP mainly and others include HTML, JS, bootstraps, purecss, CSS, etc. Coding was the main part of this project and the most important since it is the phase where we built this project.

Testing

We thoroughly test numerous times and some of them were not successful then we had to go over our code and fix errors. We compare our website to other websites to see if we meet the requirements. Testing in agile models was an intense process as we had to fix so many features and a bit time-consuming. We used Jira for moving features to progress and then eventually did. We test our website by running it on localhost and connecting to the database to make login/signups works.

Development

We had frequent iterations, and we release it often to make sure the part we were working on worked the way we want. We checked the bugs or defects in every feature we worked on. We spend a lot of time testing features and then moving to development. We built all the features that we listed on define.