

Project Management Report

Our project name is Smiles which is based on Orthodontic treatment. As we gave the details of our project in our project user manual, here we are going to share the project management agile process of our project. Who we divided our project into tasks and who we achieved the tasks in each increment. We completed our project in total 4 increments, now let's walk you through the increments one by one.

Increment 1:

This was our first phase in our project, where we as a team of 4 got to know each other and based on what technology all were familiar with we came to a conclusion that we would choose android as our platform for our project. Next thing we did is, did some research on how can we do our project, sketched out a plan and divided the tasks among our self. In this phase we have not yet started our project, we have not yet written any code we can compare it with the requirement phase. It took use around total 72 hrs to finalized the platform we wanted to work on and just created a project plan documentation for the Increment 1. This is all our work done yet so far in increment one.

Zen Hub Charts:



Issues closed in increment 1:

Completed issues and pull requests	Story points
<div>Project Plan Documentation</div> <div>CS5551-Project#29</div>	Not estimated
<div>Project Proposal</div> <div>CS5551-Project#30</div>	

Increment 2:

Now we are in the second phase of our project, where we actually started coding for our project, which we can say as building application phase. In this phase have build the application layout like the login page, registration page, google maps and setup a database. So, we have our basic things being setup here. There where not difficulties faced yet here. All these tasks where divided equally among 4 of our team members. In this phase we worked 2 hrs a day took 48hrs to get these things done. This phase was a kick of to our project.

Zen Hub Charts:



Issues closed in increment 2:

Completed Issues and Pull Requests	Story points
🔴 Build the basic Android project shell. CS5551-Project #5	1
🔴 Build the Registration Form CS5551-Project #7	2
🔴 Build the Login Form CS5551-Project #9	1
🔴 Build out the Firebase DB CS5551-Project #10	2
🔴 Firebase checked properly <small>enhancement</small> CS5551-Project #10	3
🔴 Build out Provider Location Form CS5551-Project #27	1
🔴 Project Plan Documentatin (Iteration #1) CS5551-Project #28	1
🔴 Partial of the report for Increment 2 <small>enhancement</small> CS5551-Project #31	Not estimated

Increment 3:

We are into the third phase of our project. This phase of one of the crucial phase and a important one, were we did our major work of our project. In this phase most of our application functionalities had to be done. We have divided the tasks equally among the team. The application features like the user template information, google maps radius feature to pull orthodontist around the radius, Photos feature, Data storing and retrieving from firebase and email feature for the user to send mail to orthodontist. The major difficulty we faced here is to pull up the orthodontist email and incorporate it in the maps. We could not complete this feature in increment 3. This feature was then moved to increment 4, it will be talked later as we move to next increment. So, for the maps we have used the Google maps text api to search for the orthodontist and Google maps places api for the orthodontist near me in that particular radius. All these details would be passed to the Google maps places/details api to get the details of the orthodontist clinic like opening hours, rating, contact info etc. At, this point of time we have the major information of the orthodontist to be displayed to the user. In this phase we worked for 100 hrs overall.

Zen Hub Charts:



Issues closed in increment 3:

Completed Issues and Pull Requests	Story points
Build the Registration Form CS5551-Project #12	No: estimated
Add support for Registration Form CS5551-Project #13	No: estimated
Build Oral Health Template form CS5551-Project #14	No: estimated
Add Support for the Oral Health Template Form CS5551-Project #15	No: estimated
Photo Upload Feature CS5551-Project #16	No: estimated
Store and retrieve pics from mobile storage CS5551-Project #17	No: estimated
Email Proof-Of-Concept. CS5551-Project #32	No: estimated
Support for Map Radius CS5551-Project #33	No: estimated
Add Menu to Map Form CS5551-Project #35	No: estimated
Research sending Email from Android. CS5551-Project #36	No: estimated















Increment 4:

The last phase of our project smiles. Here we have to be done with our application and ready to be used. This phase was crucial to our project as it was the last one and yet few major features had to be implemented. The task here was to complete the email feature, so that the user will be able to send the details to the orthodontist. For this we have used the Hunter api, which will take a domain name and gives back the email address of that domain in any present, which is our target mail of the particular orthodontist the user selected. The major issues we faced is how to get the email id for the domain after a lot of research we found the Hunter api which does this work. With this almost all of our application features where completed. There was another issue we faced is how to retrieve the images from firebase and incorporate in the email. This was because the difference between firebase database and firebase storage. The firebase database gives us a way to access it child nodes, but in storage we can't do that directly. So, we had to figure out a way, what we did was we got the path of the images from firebase storage and stored them in data base and incorporated those URL paths of the images in email. With this all of our application was ready and running in a good condition. But here we faced one last issues, which was the Google api limitations of number of hits we can do to get the places using google maps was limited, which we hit that mark at one point in our project and could not figure out why the maps were not responding. At last we tried by debugging and changed the key and found out he reached this limit per day requests. So, this is how we have successfully completed our project in 4 phases following the agile project management process.

Zen Hub Charts:



Issues closed in increment 4:

 Add Support for the Login Form CS5551-Project #9	
 Build out the CB tables. CS5551-Project #11	
 Build Search Form CS5551-Project #18	Not estimated
 Add Support for Search Form CS5551-Project #20	Not estimated
 Build Request Email Template CS5551-Project #21	Not estimated
 Build Reply Email Template CS5551-Project #22	Not estimated
 Build Provider Review Form CS5551-Project #23	Not estimated
 Add Support for Provider Review Form CS5551-Project #24	Not estimated
 Build Success Form CS5551-Project #25	Not estimated
 Integrate Email code into App CS5551-Project #37	Not estimated
 Build Facial Pic Form CS5551-Project #38	Not estimated
 Add Support for Facial Pics CS5551-Project #39	Not estimated

Links :

Youtube Link: <https://www.youtube.com/watch?v=WOu0io3Y9wo>

Slides Link: https://github.com/wa6c6/CS5551-Project/blob/master/Documentation/smiles_presentation.pptx

Project code Link: <https://github.com/wa6c6/CS5551-Project>