**Project Title: Cleft Lip Aesthetics Tool**

3rd October 2016 – 9th October 2016

Goals of the project established through a meeting and a one-page summary written up regarding the project description and goals. Need to investigate possible multi-platform technologies to create the app in. Work out a method in which to draw around the lip regions. Set up back up of all work produced.

10th October 2016 – 16th October 2016

Ask about whether I need to set up the cloud based side or if it will be given to me. Discuss ideas on how to draw the lip regions. Clarify the possibilities of what the operating system will be of the users of the app. What is the theme of the app? UCL themes are available.

Native application makes updates a hassle because each user would have to manually do this. Web applications are automatically updated.

Use of HTML canvas to have a background of the patient’s image. Found a plugin which allows the user to draw on this canvas. Multiple drawings can be carried out with these able to be shown on top of each other. I feel drawing the lip regions on a small phone would not be practical due to the precise nature of the work. Not using a pen but instead using your finger would probably make this worse. I think ideally you would want to use a mouse or a pen on a larger device such as a tablet.

<http://www.williammalone.com/articles/create-html5-canvas-javascript-drawing-app/>

<http://intridea.github.io/sketch.js/> Can save sketch easily

Process the drawings so that it ends up smoother. Less jagged edges. Button to make smooth. Upload both versions to cloud. Control points, straight lines or Bezier, could have requirements or Should have. Better for smaller screens with zoom in features.

I set up cloud based part, images that someone else uploads already on there. I upload lip drawings and symmetry scores to cloud.

No specific theme. Ensure clean interface, look into Android’s clean theme recommendations.

Use cases and then MoSCoW style requirements, sequence diagrams, 3 sentence summary, user stories. Clinicians and researchers. Researchers focus on data and analytics. Do by next week.

Web application decided.

17th October 2016 – 23rd October 2016

Default page is local data with link to cloud on top. Sync feature available here.

Cloud: view images and their drawings and symmetry scores for each. Download specific images with optional drawings and symmetry downloads.

Local: View locally stored images and if already produced, their drawings and symmetry scores. Sync content with cloud.

Local Image: Create drawing, view drawings and symmetry scores.

Syncing tool needs to be researched further to see exactly how it will be done. Investigate how cloud will be set up. Project plan for the remainder of the project. Gantt chart. MoSCoW style requirements. Mock ups.

24th October 2016 – 30th October 2016

Potentially use Cordova web storage for local data storage. Otherwise the whole app will have to be online.

App for phones and computer distributed separately negate need for login page.

Offline web pages except for the cloud part. Dropbox for uploaded images with specific names? File types of predictions and drawings.

Azure, uploading images outside scope. Lip drawings are PNG format. 0 not lip, 1 corresponds to lip. The more complicated would be JSON. Predictions are PNG drawing to JSON with data and symmetry score.

Set up GitHub, finish mock ups, link requirements to Gantt chart, do project plan and email. UML diagram

31st October 2016 – 6th October 2016

Add Harry to GitHub. [**https://app.moqups.com/farbasmiah@gmail.com/q0nfEJ6QiS/view**](https://app.moqups.com/farbasmiah@gmail.com/q0nfEJ6QiS/view)

Look into cloud side with azure or another storage.

Create UI pages and produce APK file. Push code to GitHub.

Push documentation to GitHub.

Initial UML class diagram.

7th October 2016 – 14th October 2016

Created Phone Gap project with screens and design/theme set out. UML activity diagram created.

15th October 2016 – 22th October 2016

Do the rest of the screens so that all pages are created.