# Technical Documentation for ShopAir and Estimote Beacons

| Date | Issue | Step taken to Fix Issue | Time Taken (hours) |
|---|---|---|---|
| Oct 27 | Code for connecting iBeacons to App | | 2 |
| | Installing *MAMP Pro* and figuring out database connection | Search tutorials, write PHP code and figure out connectivity issues | 3.5 |
| | Installing dependencies for iBeacons | | 1 |
| | | | |
| Oct 28 | *MAMP Pro*: Database connection with php | Connect the sockets rather than the IP protocol connections | 1.5 |
| | Error in running iBeacons project because of an error with pod dependencies and build paths | Realized that frequent switching between computers was causing the issue. Deleted the whole project. Used an earlier version and reinstalled the iBeacons dependencies. | 3 |
| | Fixing access to users | | 0.5 |
| Oct 30 | WorkStation (Laptop used for protoyping) crashed. | Back up Database. Reformat new workstation. | 5 |
| | iBeacons can't seem to connect to simulator | iOS Simulator is not supported by iBeacons. Researched and found out that iBeacons connectivity is only supported by smartphones | |
| | | Requested access to iOS Developer Account | |
| Nov 01 | Shifted to New laptop so had to install new updates | Reinstalled OS, XCode, Sublime Text, MAMP Pro, and Workbench on new Workstation | 8 |
| | | Setuped database, and  reinstalled | 2.5 |

| | | dependencies, Facebook SDK and Estimote SDK | |
|---|---|---|---|
| Nov 04 | | Received Access to iOS Developer Account | |
| Nov 06 | Pushing App to iPhone | Couldn't add device to the IOS developer account. Administrator later had to reset it. Administrator added iphone . However still was not able to add manually, so administrator access was given | 2 |
| | | Total time taken for Completion of setup | 2+1 = 3 |
| Nov 07 | Error in Connecting to Beacon | Fixed by adding delegate CLocation class and CBPeripheral methods, updating info.plist to add appropriate methods and updated the code to meet the requirements for ios 8.1 | 2.5 |
| Nov 08 | Error in passing the facebook user data to the database through php | Error in grammar :/ plus also changed methods to pass the variables to php | 4 |
| | New records created whenever login button is pressed | Make unique 'email id' key in the table user so only once the record is saved. | |
| Nov 10 | Beacon Notification and Inputting in the preference | | 3 |
| Nov 11 | Trying to fix data transfer between different methods | Internet Research + Trial and Error | 4 |
| Nov 11 - Nov 13 | Transferring data between methods | Meetings with CA Yazan Error solved by realizing that transferring data between segues is different. Fixed through several meetings with Yazan and trial and error methods. | 8 |
| Nov 14 | Connection with database and php for preference page | Writing stored procedures but still has errors and debugging. | 3 |
| | Beacon Error with | | 3 |

| | | | |
|---|---|---|---|
| | major and minor properties not passed | | |
| Nov 15-Nov 20 | Database errors : Meetings with Humaira | Rewrote Stored Procedures, MySQL and PHP connection for input of preferences . Still in the process of fixing other errors for such as displaying data from MySQL onto XCode. | 4 |
| | Xcode errors : Meetings with yazan | Every day meeting with Yazan on trying to figure out the iBeacon methods, iBeacon regions, and order of iBeacon methods implementation | 9 |
| Nov 22 | Database error with connection to preference page | Tried to log everything and rewrite php code,. Error found in passing the data from xcode to php with '&' missing and " ' ' " missing for string . | 1.5 |
| | Xcode Notification | 'didenterbeaconregion' method invoked but with extreme lags and delay in recognition of ranging beacons. Worked a way round by trying to send enter notifications when ranging for beacons and send this only once. | 2 |
| Nov 23 | Error connecting app for second phone with regards to facebook, mysql connection and stored procedure | Fixed facebook connection by adding general public to view the app, fixed mysql connection by adding the IP address of computer. Fixed stored procedure to add preferences for multiple people . | 2 |
| Nov 24-Dec 4 | | Debugging, Product image fixes and Minor touchups, | 6-8 |