# IOS application

1. Install application.
2. User sign in.
3. Check if GPS is turned on.
4. Application will ask for location permission (First time only).
5. Main view of the app where you can select scan QR-code.
6. Selecting QR-code will ask for permission to use the camera (First time only).
7. The camera will come up and a QR-code can be scanned.
8. If a code is scanned it can fail or passes and this will be shown as a message.
9. Application will ask for Bluetooth permission (First time only).
10. Phone pairs with work station if the user moves too far away from the work station it will sign out form the workstation.
11. Information will be sent to the server for either sign in or sign out of a workstation.

## Tests

1. Try to install the application on IOS versions 5,6 and 7
2. Send multiple sign in requests correctly and incorrectly and verify the response from the server.
3. Can the Bluetooth, camera and GPS be used. (Test permission?)
4. Manual: Try to scan correct and incorrect QR codes  
   Automated: Have a selection of QR-codes incorrect and correct to send and then verify the response.
5. Mockup the request and response to connect to the workstation with a corresponding QR-code.  
   Manual test: test the distance sensing between the work station and the phone (with signal strength?), also test actual connection to a workstation.
6. Try to send all possible combinations of sign in and sign out and verify that nothing goes wrong.

# Back end server

1. Install dependencies.
2. Set PORT environment variable.
3. Launch application.
4. Check log for information.

## Tests

1. Set wrong value for PORT and check that it is not working.
2. Set good value for PORT and check that it is working.
3. Send a GET request on a wrong route and check response.
4. Send a POST request on a wrong route and check response.
5. Send a DELETE request on a wrong route and check response.
6. Check response on every route (send good parameters if needed).