FSM Demo Workflow

1. (Web) Show Web Console
2. (Web) Monitoring screen showing assets, technicians and active jobs
3. (Web) Show job queue which includes pertinent details of job and how manager schedules a job
4. (Web) Inspect a planned maintenance job assigned to an asset and view the tasks
5. (Web) Assign the job to a technician without the necessary skills error occurs and then assign to appropriately certified technician
6. (Android) Show jobs from technicians view on Android device including newly assigned job
7. (Android) Show parts/tools required for my jobs including a job to pick up parts from the warehouse
8. (Android) Scan a couple of items including a bluetooth tagged tool to simulate picking up items at the warehouse
9. (Android) Start the first job (with small number of tasks) show turn by turn directions, review and complete a few tasks showing both touch and voice gestures
10. (Web) Show progress on Android phone and Manager's view from Web console (Phase 2)
11. (Android) Mark the final task as complete, show the job as complete and move to the second job.
12. (Both) After first task is complete for 2nd job trigger a critical response alert that automatically dispatches the technician. (Requires server functionality)
13. (Android) The technician sees the notification, taps on it to review the job, starts the job, and receives driving directions to the CR job. The current job is suspended as the technician starts the CR job.
14. (Web) Show Manager's view on web console of CR being accepted by technician and current job being suspended. (Requires server functionality, Phase 2)
15. (Android) Technician completes a task that has him removing faulty part requiring him to scan the barcode as he removes the part. The task requires him to enter some basic RMA details in the Android app
16. (Web) Show how manager can see progress of CR job and current task (Requires server functionality, Phase 2)
17. (Web) Show how manager can initiate chat with technician (Requires server functionality)
18. (Android) Technician installs new part and asset is back in good condition.
19. (Both) Simulate technician leaving BLE tagged tool at the site by removing battery and show how both technician and manager are notified that the tool is out of range. Put battery back and show that happiness has been restored. (Requires server functionality)

FSM Demo Workflow - Android
Prototype: https://invis.io/M84EVOR4R

IMPORTANT: Opening the link on your Android device (in i.e. Chrome) will let you operate with the prototype as if it was a real app.

6. (Android) Show jobs from technicians view on Android device including newly assigned job:

1. Open the prototype.
2. Tap the “Login” button.
3. “Today” screen shows the jobs for the Technicians.

7. (Android) Show parts/tools required for my jobs including a job to pick up parts from the warehouse:

1. Open the prototype.
2. Tap the “Login” button.
3. On the “Today” screen tap the “Toolbox” icon in the AppBar.
4. The “Today’s inventory” screen will show parts to pick up.

8. (Android) Scan a couple of items including a bluetooth tagged tool to simulate picking up items at the warehouse:

1. Open the prototype.
2. Tap the “Login” button.
3. Tap the “Hamburger” menu in the top left corner to open the “Navigation drawer”.
4. Choose “My inventory”
5. On the “My inventory” screen tap the FloatingActionButton (“FAB”).
6. Tap the “Add by beacon” button.
7. Tap on the scanning area.
8. Choose the “Pump X2000A” item.
9. A ToastMessage will appear with a confirmation that an item has been added.
10. Tap the area above the ToastMessage to dismiss it.

9. (Android) Start the first job (with small number of tasks) show turn by turn directions, review and complete a few tasks showing both touch and voice gestures
11. (Android) Mark the final task as complete, show the job as complete and move to the second job / After first task is complete for 2nd job trigger a critical response alert that automatically dispatches the technician
13. (Android) The technician sees the notification, taps on it to review the job, starts the job, and receives driving directions to the CR job. The current job is suspended as the technician starts the CR job
15. (Android) Technician completes a task that has him removing faulty part requiring him to scan the barcode as he removes the part. The task requires him to enter some basic RMA details in the Android app:

1. Open the prototype.
2. Tap the “Login” button.
3. “Today” screen shows the jobs for the Technicians.
4. Tap the “Fix high-speed shaft” job.
5. On the “Fix high-speed shaft” job screen tap the FloatingActionButton (“FAB”) to start the turn-by-turn navigation. To preview the location (before starting the turn-by-turn navigation) tap the address on the same screen.
6. Tap in the navigation area to simulate reaching the destination - you’ll be presented with the first task “Remove part X1000/1A” of the “Fix high-speed shaft” job.
7. Tap the FloatingActionButton (“FAB”) to complete the “Remove part X1000/1A” task - you’ll be presented with the next one.
8. Tap the FloatingActionButton (“FAB”) to complete the “Reset the system” task - you’ll be presented with the next one.
9. Tap the FloatingActionButton (“FAB”) to complete the “Add new part X2000A” task - you’ll be presented with the “JOB DONE” tab. The technician is supposed to give some feedback how well was the job defined by his Manager.
10. Tap the FloatingActionButton (“FAB”) to complete the “JOB DONE” feedback tab - you’ll be presented with the “Today” screen and a ToastMessage - “Fix high-speed shaft completed. Thank you…”. The job will be now in the “Completed” section.
11. To review the job tap on the “Fix high-speed shaft” job.
12. Tap on the “Back” button to go back to the “Today” list.
13. On the “Today” screen tap the next job “Lubricate the engine” in the “Scheduled section.
14. On the “Lubricate the engine” job screen tap the FloatingActionButton (“FAB”) to start the turn-by-turn navigation. To preview the location (before starting the turn-by-turn navigation) tap the address on the same screen.
15. Tap in the navigation area to simulate reaching the destination - you’ll be presented with the first task “Remove old lubricant” of the “Lubricate the engine” job.

16. Tap the FloatingActionButton (“FAB”) to complete the “Remove old lubricant” task - you’ll be presented with the next one with a “Windmill broken” CriticalNotification in the top.
17. Tap the CriticalNotification to open the “Windmill broken” critical job screen.
18. Tap the FloatingActionButton (“FAB”) to start the job - an alert will appear.
19. To suspend the current job (“Lubricate the engine”) and start the critical job choose “Yes”. Choose “No” to go back to the critical job screen.
20. Choosing “Yes” will enable the turn-by-turn navigation.
21. Tap in the navigation area to simulate reaching the destination - you’ll be presented with the first task “Check part X1000/1A” of the “Windmill broken” critical job.
22. Tap the FloatingActionButton (“FAB”) to complete the “Check part X1000/1A” task - you’ll be presented with the next one.
23. Before marking the “Remove faulty part: Gauge 100G” task as “Complete” the Technician has to take the faulty part into custody. Until he does that the “FAB” will be disabled. Taping it will present a “Add Gauge 100B by barcode” ToastMessage.
24. Tap the “Add Gauge 100G by barcode” button to enable scanning.
25. Tap in the scanning area.
26. A “Gauge 100G added” ToastMessage will appear. To proceed tap the “FAB” - you’ll be presented with the last task of the “Windmill broken” critical job.
27. Tap the “FAB” to complete the last “Add new part X2000A” task and proceed to the “JOB DONE” feedback tab.
28. Tap the “FAB” to complete the “Windmill broken” critical job.
29. On the “Today” screen a “Windmill broken completed. Thank you…” ToastMessage will appear. To dismiss it tap the area above.
30. The suspended “Lubricate the engine” job will be in the “Suspended” section.
31. To repeat the whole process tap the “Hamburger” icon in the top left corner of the screen and choose “Today” in the NavigationDrawer.

18. (Android) Technician installs new part and asset is back in good condition:

This is more for the WebApp. The Manager has an overview of the assets condition.

19. (Both) Simulate technician leaving BLE tagged tool at the site by removing battery and show how both technician and manager are notified that the tool is out of range. Put battery back and show that happiness has been restored:

For the Demo purposes we’ll present just a “Out of range” notification.

1. Open the prototype.
2. Tap the “Login” button.
3. Tap the “Hamburger” menu in the top left corner to open the NavigationDrawer.

4. To simulate the “Out of range” notification on the Android device lock screen tap the dimmed “Out of range” label in the top of the NavigationDrawer.
5. Tap the “Out of range” notification to go to the “TKSA11 Shaft alignment tool” out-of-range screen. The strikethrough “Bluetooth” icon will indicate the out-of-range state.

Other working screens:

- Chats
- Alerts