**Working of Unauthenticated Power Outage Reporting Application**

Application can be broadly divided into three modules

* Proximity Selection
* Address Selection
* Confirm Address and send email to iFactor

**Proximity Selection:**

* The first screen contains three accuracies namely
  + Accuracy Best
  + Accuracy 10m
  + Accuracy 100m
* There are 3 proximity selections because we wanted the app to demonstrate scenarios where the accuracy may range from best to 100m
* Based on the proximity selected the location accuracy will be set and current location will be obtained

**Address Selection:**

* Based on the current location coordinates the database is queried to get a list of address
* If the accuracy best is selected we get addresses within a range of 25m or less
* If the accuracy 10m is selected we get address within a range of 50m or less
* If accuracy 100m is selected we get addresses with a range of 100m or less
* Based on the list obtained a table view and map is populated with pins
* If the list has more than 5 addresses then we have a option more addresses which when pressed refreshes the list and this continues until all the address have been shown
* As the addresses gets refreshed the pins on the maps also gets refreshed
* Once you select one of the address it redirects to the next screen
* If you want to select any other accuracy you can go back to the previous screen and select a new accuracy based on which the addresses will be populated

**Confirm address and send email to iFactor:**

* Once you have selected an address from the previous screen, a confirm page with a map and pin pointing to the selected address appears
* With the map a label which displays the address selected and two button yes and no appears
* When you hit the yes button a mail which has all the fields filled up appears and just press send button to send mail to ifactor to report outage
* If you press no button you will be redirected to the previous screen where you have the list of addresses to be selected
* Once you press the send button an alert box appears which says thank you for reporting power outage and you will redirected to the first screen i.e. proximity selection screen.