CSE 5236 Checkpoint 5

List of use cases & NFR

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Use cases | Non-functional requirements | Description | Effect |
| 1 | Remove ProgressDialog when recognizing food | Responsiveness | - (Before) Users need to wait when uploading a photo from camera or gallery | - (After) Users can directly add more photos after the first one |
| 2 | Handle network failure | Availability | - (Before) When there is no network, the running application will crash when uploading images | - (After) There would be a Toast to tell the user that network is not available |
| 3 | Fix rotation problems | Usability && Security | (Before)  (1) LoginActivity can rotate, but only shows the large logo without buttons.  (2) NewFoodActivity lost all the data(photo, text) after rotation.  (3) EstimateActivity resets the seekbar position after rotation.  (4) ResultsActivity displays only parts of the buttons after rotation.  (5) DetailsActivity displays only parts of the buttons, and jumps to the first food after rotation. | (After)  (1) LoginActivity can rotate correctly now. The logo becomes smaller after rotation.  (2) NewFoodActivity would not rotate now in order to avoid stopping background operation.  (3) EstimateActivity will restore the position of the seekbars after rotation.  (4) ResultsActivity displays correctly after rotation.  (5) DetailsActivity works correctly after rotation. |
| 4 | Recognizing several food from several images at the same time | Performance | (Before) Users can only recognize food from one image at the same time, so several images means recognizing in serial order. | (After) Users can recognize food from several images at the same time, in parallel. So the user will save lots of time. |
| 5 | Network disrupt when recognizing food from image | Usability && security | (Before) The app will crash if the network is disrupted when recognizing food. | (After) A Toast is shown to tell the user that something goes wrong. |