# OmniGlucoseTracker – Test Document

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Testing environment:

1. Nexus 7; (2)Moto X; (3)AVD.

The database is created by the class in test package for testing purpose;

1. Login Interface

To protect personal information, user must use login name and password to login.

For Testing purpose, Login name :admin Password: admin is preset.

User can also create account in this UI, app will check login name and password match, and the name can’t be empty.

1. Menu Interface

Menu displays correctly on both smartphone and tablet. Size of button is adjustable to different screen sizes. Each button responses to user click correctly, and able to start corresponding Activities correctly.

1. User Info panel

The information of current user can be viewed in this UI.

By tapping edit, user can modify user information in dialog.

If nothing new is put in, the user will not be modified.

User information is refreshed successfully after modification.

1. Contacts

User can view all the contacts in this UI.

By tapping the add user button, user can add contact to the database, the contact name, number and email can’t be empty. This is not a valid Contact

The list displays contact’s name.

By tapping on the item, user can view details in the dialog, and choose options.

Available options are edit and delete.

If nothing new is put in, the contact will not be modified.

Once the contact is modified or deleted, the list is refreshed successfully.

The UI works will empty contact list.

1. Location

Google Map is used to show current location.

All the locations of today are shown on map.

User can choose date by the tapping the image button to choose another day.

The date with no data also works.

1. Glucose Display (daily, weekly, and monthly)

Display is adjustable to different screen sizes. Previous and Next button change the display date correctly. Of note, in weekly display mode, data from the week that selected date belongs to are displayed, same in monthly display mode. Corner cases such as change of month or year are tested. Warning shows up when user tempts to select a date in the future. Calendar button can let user select arbitrary date and display the selected date on screen.

Data are displayed correctly in the graph, and statistics of data are calculated and displayed accurately. Five thresholds, according to Tidepool, are displayed as horizontal lines in the graph. Axis labels and legends are displayed correctly.

Click back button on the device can return to menu.

1. Analysis

Histogram of glucose data in this month is displayed here. Labels are correct and related to each bin straightforwardly. If no data are presented, a blank graph is displayed.

1. System Log

This UI can display all the data in database in day view.

By tapping the add data button, user can add data to the database. If every item is empty, warning dialog will show.

By tapping on the item, user can view details in the dialog, and choose options.

Available options are edit and delete.

If nothing new is put in, the contact will not be modified.

Once the data is modified or deleted, the list is refreshed successfully.

By tapping the calendar image button, user can choose to display the data of another day.

The UI works will empty data list.

1. Emergency