UECS3253/UECS3463 Wireless Application Development

PRACTICAL ASSESSMENT PAPER A

Name: SE / ET   Student ID: Marks: /50

Instructions:

1. Attempt this practical assessment in 1 hour 45 minutes.

2. All JavaScript source files containing your code must have the following comments at the beginning of each file:

```
/**
 * Name: <Insert Your Name here>
 * Reg. No.: <Insert Your Registration No. here>
 */
```

3. When completed, archive your React Native project folder in **ZIP** file format using your name as the filename, i.e. if your name is **Ng Pei Li**, your ZIP archive shall be named **Ng Pei Li.zip**.

4. Upload the abovementioned ZIP archive using the link provided.

5. Print all JavaScript source files containing code that you wrote, i.e. **App.js** and all other files that you created and submit by the next working day.

Scenario:

Develop a React Native app to keep the record of the user's favourite movies. The records are stored in a table named **movies** using an SQLite database named **moviesdb.sqlite**. Table 1 shows some sample data of the **movies** table.

id	title	language	release_date
1	Chicken and Duck Talk	Cantonese	584841600
2	It's a Mad, Mad, Mad World	Cantonese	538704000
3	Transformers	English	1183420800

Table 1: Sample data of *customers* table

For the purpose of this assessment, you are only required to build THREE (3) screens: one for displaying a scrollable list of movies, one for adding a movie to the storage, and another for displaying information of the selected movie.

Questions:

1. Build the THREE (3) screens below:

   (a) A scrollable list displaying the **title** and **language** of the movie. Selecting an item will navigate the user to the screen that displays information of the selected movie.

   Provide a suitable method for the user to navigate to the screen for inputting movie information. (6 marks)

   (b) An interface to display the following fields about a movie: **title**, **language** and **release_date**. (6 marks)

   (c) An interface for inputting movie information to add in storage. Use appropriate input components for the required fields: **title**, **language** and **release_date**. The **language** field only accepts the values **English**, **Malay**, **Mandarin**, **Cantonese**, **Japanese** and **Korean**. (13 marks)

2. Build the SQLite implementation for the THREE (3) screens in Question 1.

   (a) Query the **movies** table ordered by **release_date** in descending order to provide the required data for the screen in Question 1(a). (6 marks)

   (b) Query the **movies** table to retrieve a single row specified by **id** to provide the required data for the screen in Question 1(b). (6 marks)

   (c) Insert a new movie to the **movies** table using the input from the screen components in Question 1(c). (13 marks)