FLOW CHART OF FRONTEND

User

Does User Have an account?

NO → Get User Details

YES ↓

Get User Login Details

Register User

Are there any errors?

NO

YES

Login User

Is user in the system?

NO

YES → Ask for user's location

Is user's location Provided?

YES

NO

Display landing page

NO

Search for parking

Ask for user's location

Is user's location provided ?

Is there parking space available nearest to the user?

YES

YES

NO

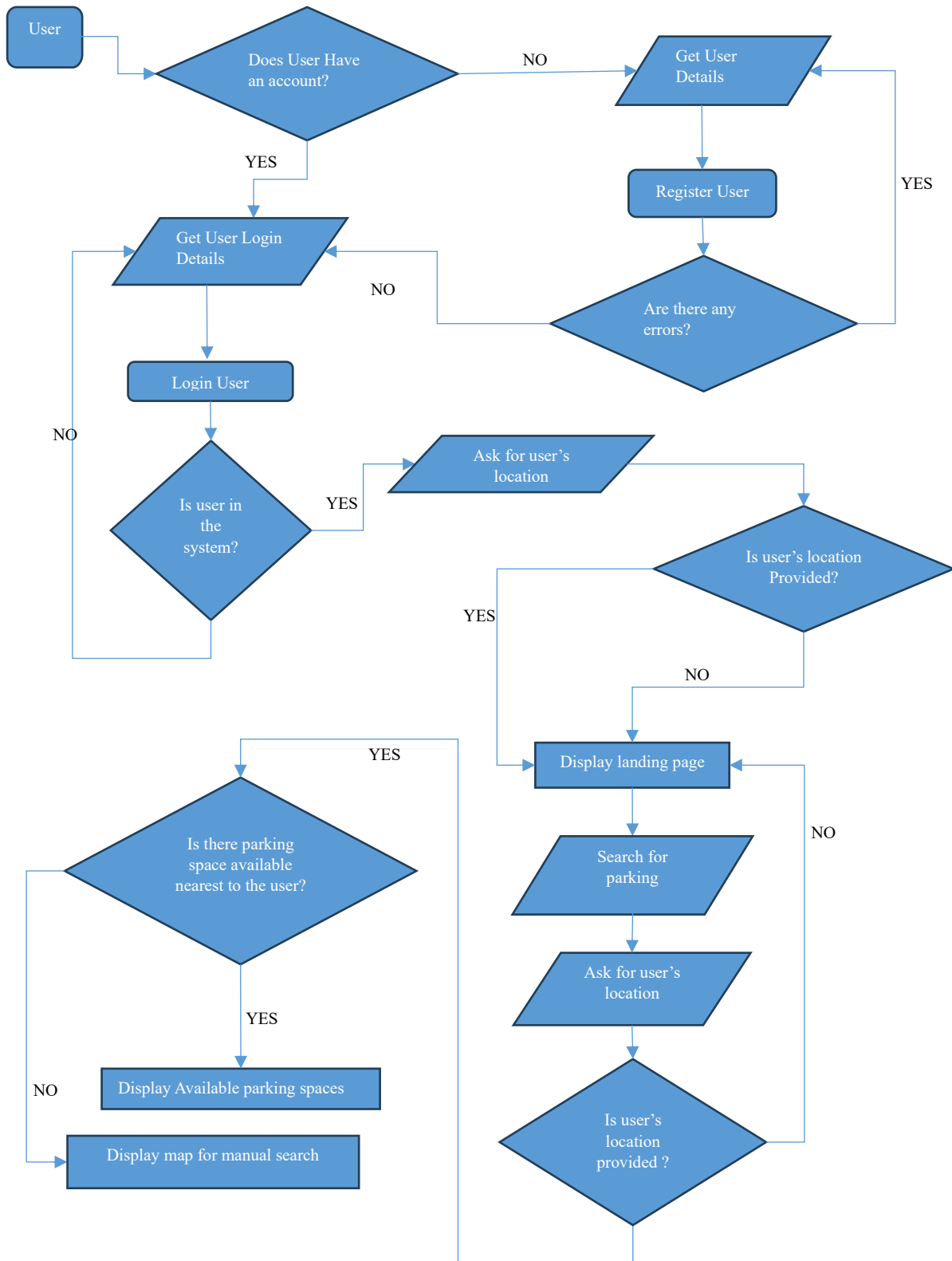Display Available parking spaces

Display map for manual search

PSEUDOCODE

1.1 USER AUTHENTICATION

```
User = None /* set globally */

message = None /* set globally */

IF user_has_account THEN

        TRY

                AWAIT Regiser_new_user

                Set message

                Redirect to login page

        CATCH

                Set message

        FINALLY

                Display message

ELSE

        TRY

                AWAIT Login

                Set message

                Set user

                Redirect to landing page

        CATCH

                Set message

        FINALLY

                Display message

END IF
```

1.2 AT LANDING PAGE

```
location = input "Enter user Location" /* global */

display Landing Page

navigation = input "Enter Page to view" /* global */


IF navigation is correct THEN

        Redirect to navigation

        IF navigation == search parking page THEN

                Redirect to search parking page

        ELSE IF navigation == show history page THEN

                Redirect to show history page

        ELSE IF navigation == current page THEN

                Display landing

        ELSE

                Display Error Page

END IF
```

1.3 AT SHOW HISTORY PAGE

```
history = null /* local */


IF history != null OR history.length != 0 THEN

        Display a list of the place and date the parking space was used

ELSE

        Display as text no history saved yet

END IF
```

1.4 AT SEARCH PARKING

```
possible_parking = null /* local */


IF location != null THEN

      Display a list of the place and date the parking space was used

ELSE

      Current_location = input "Current location"

      IF Current_location != null THEN

            TRY

                  AWAIT Search for parking

                  Set message

                  Set possible_parking

                  Display Parking spaces found

            CATCH

                  Set message

            Finally

                  Display message

      ELSE

            Set message

            Display Error popup

      END IF

END IF
```