FLOW CHART OF FRONTEND

User

Does User Have an account?

YES

Register User

Are there any errors?

Login User

Is user in the system?

Get User Login Details

Get User Details

NO

YES

Display landing page

YES

Is there parking space available nearest to the user?

Display Available parking spaces

Is user’s location provided ?

YES

NO

YES

Display map for manual search

d

NO

NO

NO

Is user’s location Provided?

Ask for user’s location

YES

NO

Ask for user’s location

Search for parking

PSEUDOCODE

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

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

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

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