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The dot product of the two vectors is then calculated using the above-mentioned formula. There are 7 attributes involved in the similarity calculation, so taking n = 7, the formula can be re-written with consideration of the attributes as:

If the 7 attributes of is named as , and and that of is named as , and then the similarity score is computed as:

1.1.1. Phase 2: Predicted rating generation using weighted average
The second phase is the implementation of the predicted rating calculation to find which charging station is to be recommended. The system calculates the weighted average using the method as mentioned in section 4.2.4 of this document.

Here, is the weight value, is the item value and is the weight obtained after the computation. For this system, the weight is the similarity score between the charging stations. The item value is the rating provided to the charging station by the user. So, if we consider as the predicted rating of charging station for user , as the similarity score between the charging station and , and as the rating provided by user to charging station then we can rewrite the formula as:

1.2. Testing
Testing is the process subjecting the system to various conditions, scenarios, or constraints so as to find whether the system performs correctly and desirably. Testing is performed parallelly to coding. If any bugs or errors are found during the testing phase, it is fixed via editing the code or re-coding.
Validation ensures that the software satisfies the user requirements. If the software matches the user requirements, it is said to be validated.
Verification makes sure that the system is developed following the proper specifications and methodologies. If the software matches the development criteria it is said o be verified.
This system was subject to various scenarios and the outcome was noted. The system was tested using test cases which have been documented as:

Table 5.2: Test case for signup
Test Case ID
TC-1
Test Scenario
Register new user
Actions

1. Open Register page
2. Input the name, email, and password.
3. Click “Register” button.
Input
Name: Ram Dhami
Email: ramdhami@gmail.com
Password: 23morang@33
Confirm password: 23morang@33
Expected Results
* Redirected to recommendations page.
* Ram Dhami is displayed on top right of screen.
Observed Results
As expected
Assertation
Pass

Table 5.3: Test case for login
Test Case ID
TC-2
Test Scenario
Login existing user
Actions
1. Open Login page
2. Input the email and password.
3. Click “Login” button.
Input
Email: ramdhami@gmail.com
Password: 23morang@33
Expected Results
* Redirected to recommendations page.
* Ram Dhami is displayed on top right of screen.
Observed Results
As expected
Assertation
Pass

Table 5.4: Test case for addition of rating with valid data
Test Case ID
TC-3
Test Scenario
Addition of rating using valid data.
Actions
1. Open rate page.
2. Input the location, the charging station, and rating.
3. Press “Add Rating” button.
Input
Province: Bagmati
District: Kathmandu
Metropolitan: Kathmandu
Ward: 22
Charging Station: Jagat Charging Station
Rating: 4

Expected Results
* Success message is displayed.
* “ratings” table is updated.
Observed Results
As expected
Assertation
Pass

Table 5.5: Test case for addition of charging station with valid data
Test Case ID
TC-4
Test Scenario
Addition of charging station with valid data.
Actions
1. Open Add Charging Station page.
2. Input the locations and the charging station details.
3. Press “Add Charging Station”
Input
Name: Shiva Shakti Charging Station
Province: Bagmati
District: Kathmandu
Metropolitan: Kathmandu
Ward: 30
Fast Charging AC Ports: 2
Fast Charging DC Ports: 3
Regular AC Ports: 4
Regular DC Ports: 4
Nearest Restaurant: 312
Nearest Shopping Mall: 569
Nearest Cinema Hall: 452
Expected Results
* Success message is displayed
* Database table “charging_stations” has a new entry.
* Redirect to index page.
Observed Results
As expected
Assertation
Pass

Table 5.6: Test case for addition of charging station with invalid data
Test Case ID
TC-5
Test Scenario
Addition of charging station using invalid data.
Actions
1. Open Add Charging Station page.
2. Input the locations and the charging station details.
3. Press “Add Charging Station” button.
Input
Name: Jagat Charging Station
Province: Bagmati
District: Kathmandu

Metropolitan: Kathmandu
Ward: 22
Fast Charging AC Ports: 2
Fast Charging DC Ports: 3
Regular AC Ports: 4
Regular DC Ports: 4
Nearest Restaurant: 312
Nearest Shopping Mall: 569
Nearest Cinema Hall: -1
Expected Results
* System does not allow the invalid data and error message is displayed
Observed Results
As expected
Assertation
Pass

Table 5.7: Test case for getting recommendation without ward
Test Case ID
TC-6
Test Scenario
Get recommendation of charging station without inputting ward.
Actions
1. Open Recommendations page.
2. Input the location and check the Exclude Ward checkbox.
3. Press “Get recommendation” button.
Input
Province: Bagmati
District: Kathmandu
Metropolitan: Kathmandu
Expected Results
* Top 3 charging stations displayed.
Observed Results
As expected
Assertation
Pass

Table 5.8: Test case for getting recommendation with ward
Test Case ID
TC-7
Test Scenario
Get recommendation of charging station.
Actions
1. Open Recommendations page.
2. Uncheck the Exclude Ward checkbox.
3. Input the location.
4. Press “Get recommendation” button.
Input
Province: Bagmati
District: Kathmandu
Metropolitan: Kathmandu
Ward: 3

Expected Results

* Top 3 charging stations displayed.

Observed Results

As expected

Assertation

Pass

2

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