CSC 648 - MILESTONE 4- TESTING
TEAM 05- SECTION-04
DATE- 05/03/2023

TRAVELMATE - GPT API/MERN STACK TRAVEL PLANNING WEBSITE

TEAM-

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1) QA TESTING

For implementing test cases we have chosen 5 P1 features which are - login, signup. Database connection, gpt api and save plans. All the test cases are done in the backend by checking the user model and the established routes for each function in the routes folder.

Test cases directory containing all the test files -

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/tree/master/application/backend/tests

SIGNUP -

Allows the new users that are visiting travelmate to create an account for themselves. This account will be used by them to save their favourite plans to their profile for future reference. To signup, users will need to provide their first and last names, email id and a strong password.

Frontend-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/SignupPage.is

Backend-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/backend/routes/users.is

Testcase- the test case covers both successful and failure scenarios. The first testcase expects the user to successfully login by providing the correct details while the second test case expects the signup to fail by providing a weak password/invalid email.

```
package.json ...\frontend
                                                           Js ExplorePage.js
                                                                              us api.js

▲ api.test.js

application > backend > tests > ▲ user.test.js > ♦ describe("POST /api/users") callback
         test("should create a new user and return 201 status", async () => {
             firstName: "John",
             email: "johndoe3@example.com",
             password: "Password123!",
           const res = await request(app).post("/api/users").send(newUser);
             console.log("Error message:", res.body.message);
           expect(res.status).toBe(201);
           expect(res.body).toHaveProperty("_id");
           expect(res.body).toMatchObject({
            firstName: "John",
            lastName: "Doe3",
            email: "johndoe3@example.com",
         test("should fail to create a new user with an invalid email and return 400 status", async () => {
             firstName: "Jane",
             lastName: "Doe",
             email: "janedoe.invalidemail", // Invalid email address
             password: "Password123!",
           const res = await request(app).post("/api/users").send(newUser);
             console.log("Error message:", res.body.message);
           expect(res.status).toBe(400);
PS C:\Users\siddh\Desktop\csc648-01-csc648-04-team-05\application\backend> <mark>npx</mark> jest user.test.js
   Listening on port 5000...
     at Object.log (server.js:26:26)
 console.log
   Connected to database successfully
     at log (db.js:13:13)
PASS tests/user.test.js (7.282 s)
  POST /api/users
   √ should create a new user and return 201 status (1678 ms)
    √ should fail to create a new user with an invalid email and return 400 status (97 ms)
Test Suites: 1 passed, 1 total
            2 passed, 2 total
0 total
Tests:
Snapshots:
```

Ran all test suites matching /user.test.js/i.

LOGIN- this function allows the new/returning users to access the features of travelmate by entering the details of their registered account. If the details are valid and stored in the database, user will be allowed to enter.

Frontend-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/LoginPage.js

Backend-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/backend/routes/auth.is

test case-

It covers both successful and unsuccessful cases by having 2 test cases in login.test.js. The first test enters the details of a registered user and it passes. The second test also passes by failing to login as it expects because the test will willingly enter wrong details to test the authentication.

```
test("should login a user and return 200 status", async () => {
  const loginUser = {
    email: "johndoe3@example.com",
    password: "Password123!",
  };

  const res = await request(app).post("/api/auth").send(loginUser);

  expect(res.status).toBe(200);
  expect(res.body).toHaveProperty("data");
  expect(res.body.message).toBe("logged in successfully");
});

test("should fail to login a user with incorrect password and return 401 status", async () => {
  const loginUser = {
    email: "johndoe3@example.com",
    password: "WrongPassword123!", // Incorrect password
  };

  const res = await request(app).post("/api/auth").send(loginUser);

  expect(res.status).toBe(401);
  expect(res.body).toHaveProperty("message");
  expect(res.body.message).toBe("Invalid Email or Password");
});

});
```

```
PASS tests/login.test.js (7.92 s)

POST /api/auth

V should login a user and return 200 status (1607 ms)

V should fail to login a user with incorrect password and return 401 status (900 ms)

Test Suites: 1 passed, 1 total
Tests: 2 passed, 2 total
Snapshots: 0 total
Time: 8.248 s
Ran all test suites matching /login.test.js/i.
```

API-

This is the heart of our application as it is the feature that travelmate is built around. It is an application programming interface provided by Openai which uses the prompt given by the user to generate a plan according to the given specifications. The prompt is built by using multiple if statements to check if the user has added any additional specification and is dynamic as it can handle any number of them.

Backend api file-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/backend/services/api.js

Test case-

It covers two scenarios when the prompt is given and when the prompt field is empty. When the prompt is given, the test case checks if the api is implemented correctly and a response is returned from the server to the client.

When a prompt is not given, the response will not be generated and we can make sure that responses are not generated on empty prompts.

```
PASS tests/api.test.js (6.066 s)

GET /api/completion

V should return a completion from the OpenAI API (92 ms)

V should return a 400 error if prompt is missing (83 ms)

V should return a 500 error if an error occurs during completion creation (22 ms)

Test Suites: 1 passed, 1 total
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 6.421 s
Ran all test suites matching /api.test.js/i.
```

```
describe("GET /api/completion", () => {
    it("should return a completion from the OpenAI API", async () => {
        const mockResponse = { result: "success" };

        // Mock the createCompletion function
        createCompletion.mockImplementation(() => Promise.resolve(mockResponse));

    const prompt = "test prompt";

    const response = await request(app).get(`/api/completion?prompt=${prompt}`);

    expect(response.status).toBe(2000);
    expect(response.body).toEqual(mockResponse);
));

    it("should return a 400 error if prompt is missing", async () => {
        const response = await request(app).get("/api/completion");

        expect(response.status).toBe(400);
        expect(response.body).toEqual({ error: "Prompt is required" });
));

it("should return a 500 error if an error occurs during completion creation", async () => {
        const errorMessage = "Error creating completion";
        createCompletion.mockImplementation(() => Promise.reject(new Error(errorMessage))
);

    const prompt = "test prompt";
    const response = await request(app).get(`/api/completion?prompt=${prompt}^*);
        expect(response.status).toBe(500);
        expect(response.stody).toEqual({ error: "Internal server error" });
});
```

Database-

The mongodb database is used to store all the user data along with the saved plans associated with each user id. It is essential to make the app function as everything other than prompt generation refers to the backend database.

Database definition -

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/backend/models/User.js

Test case -

The test case check whether the mongodb database is connected to the backend server everytime it starts. This is essential as the database should be connected before the user tried to login/signup to prevent the app from crashing.

```
PASS tests/db.test.js
database connection
√ should connect to the database (810 ms)

Test Suites: 1 passed, 1 total
Tests: 1 passed, 1 total
Snapshots: 0 total
Time: 3.757 s, estimated 4 s
Ran all test suites matching /db.test.js/i.
```

2. Integration testing-Integration testing excel sheet-

est Case ID	TM 001	Test Case Description	Test the login page on first enterin	w the website	
eated By				8 me website	
	Siddharth	Reviewed By	Muhammed	-	
rsion		1			
tester's	log Check the login loading up on every	y start of the website			
ster's Na	<mark>me</mark> Siddharth	Date Tested	1-May-23	Test Case (Pass/Fail)	ass
١.	Prerequisites	No.	Test Data		
	1 Access to chrome browser	1	localhost:3000 (website link)		
				1	
t Scenar	Verify that login page has no errors	while loading			
Cocciiai	Terriy that regin page has no errors	- Transing			
p#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Executed	
ρπ		Console loads up nodemon to start frontend/backend		Pass	
	1 Start the server using npm start				
	2 Enter website url(local host)	Loads up the login page as user isn't logged in	As expected	Pass	
		T. Control of the Con		:	
	TM 002	Took Coop Description	To the leader with a state of		
t Case ID		Test Case Description	Try to login without signup	-	
ated By	Muhammed	Reviewed By	Siddharth		
sion		1		1	
tester's	<mark>log</mark> User shouldn't be able to login with	nout signing up/creating an account			
ter's Nar	<mark>ne</mark> Muhammed	Date Tested	1-May-2	5 Test Case (Pass/Fail)	Pass
	Prerequisites	No.	Test Data		
	1 Access to chrome browser	1	Test_user		
		2		6	
				!	
t Sconari	Norify that the user cannot enter th	no we beite without creating an account			
t Scenari	Verify that the user cannot enter th	ne website without creating an account			
			Ashari Daniila	Dane (5-11/N) at 5 (10 m) to	
	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Executed	
	Step Details 1 Navigate to localhost:3000/	Exprected Results Site opens	As expected	Pass	
	Step Details	Exprected Results			
	Step Details 1 Navigate to localhost:3000/	Exprected Results Site opens	As expected	Pass	
	Step Details 1 Navigate to localhost:3000/	Exprected Results Site opens	As expected	Pass	
	Step Details 1 Navigate to localhost:3000/	Exprected Results Site opens	As expected	Pass	
	Step Details 1 Navigate to localhost:3000/	Exprected Results Site opens	As expected	Pass	
p#	Step Details 1 Navigate to localhost:3000/	Exprected Results Site opens "Invalid email or password"	As expected As expected	Pass	
p#	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003	Exprected Results Site opens "Invalid email or password" Test Case Description	As expected As expected signup with invalid email/pass	Pass	
o# use ID d By	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By	As expected As expected	Pass	
o# use ID d By	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed	Exprected Results Site opens "Invalid email or password" Test Case Description	As expected As expected signup with invalid email/pass	Pass	
o# ise ID d By	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By	As expected As expected signup with invalid email/pass Siddharth	Pass	
p# use ID d By n	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By	As expected As expected signup with invalid email/pass Siddharth	Pass	
p# ase ID d By n ter's log	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cr	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas	As expected As expected signup with invalid email/pass Siddharth sword	Pass Pass	
p# ase ID d By n ter's log	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By	As expected As expected signup with invalid email/pass Siddharth sword	Pass	
o# use ID d By n	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cr	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas	As expected As expected signup with invalid email/pass Siddharth sword	Pass Pass	
o# use ID d By n	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cr	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas	As expected As expected signup with invalid email/pass Siddharth sword	Pass Pass	
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ose ID d By n ter's log s Name	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cru Muhammed Prerequisites	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas Date Tested No.	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data	Pass Pass	
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o# d By n ter's log s Name	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cru Muhammed Prerequisites	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas Date Tested No.	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data Lemail= siddharth	Pass Pass	
o# d By n ter's log s Name	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cn Muhammed Prerequisites Access to chrome browser	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas Date Tested No.	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data I email= siddharth password= 123	Pass Pass Pass Test Case (Pass/Fail)	Pass
p# d By n tter's log s Name	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cru Muhammed Prerequisites Access to chrome browser	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas Date Tested No.	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data Lemail= siddharth	Pass Pass	Pass
ose ID d By n ter's log s Name	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to community to the communit	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas Date Tested No.	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data I email= siddharth password= 123	Pass Pass Pass Test Case (Pass/Fail)	Pass
ase ID d By nn ter's log	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to cru Muhammed Prerequisites Access to chrome browser Verify that signup has strong authent Step Details Navigate to signuo page	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 eate account without entering valid email and strong pas Date Tested No. Exprected Results signup input fields appear	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data lemail= siddharth password= 123 Actual Results as expected	Pass Pass Pass Pass Pass Pass Pass Pass	Pass
use ID d By n n ter's log	Step Details 1 Navigate to localhost:3000/ 2 Try to login with invalid details TM_003 Muhammed Signup shouldn't allow the user to community to the communit	Exprected Results Site opens "Invalid email or password" Test Case Description Reviewed By 1.1 Date Tested No.	As expected As expected signup with invalid email/pass Siddharth sword 1-May- Test Data Lemail= siddharth password= 123 Actual Results	Pass Pass Pass Pass Pass Pass/Fail) Pass/Fail/Not Execut	Pass

est Case ID	TM_004	Test Case Description	Signup with valid detials		
reated By	Muhammed	Reviewed By	siddharth		
ersion		1.1			
A tester's log	User must be navigated to homepage	on successful signup			
_					
ester's Name	Muhammed	Date Tested	1-M	ay-23 Test Case (Pass/Fail)	pass
0.	Prerequisites	No.	Test Data		
	Access to browser		1 email = sid@gmail.com		
2	Details of email and pass		2 pass= Siddharth@23		
est Scenario	User must go to homepage				
251 502114110	ose mass so to nome page				
tep#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Execut	ed
	Enter email and password	Input fields should fill up	as expected	pass	7
2	click on login	User redirected to homepage	as expected	pass	
			·	i	
	T14 005	T	should need to the	-	
est Case ID	TM_005	Test Case Description	check navbar functionality		
reated By	Siddharth	Reviewed By	Muhammed		
ersion ersion	1	2			
Ω tester's log	Check if the navigate button pavigate	td all the different pages that are mentioned of	on the huttons		
an reside s 108	oncox ii tiie navigate puttoii navigate	in the different pages that are mentioned (on the suttons		
Tester's Name	Siddharth	Date Tested	2-May	-23 Test Case (Pass/Fail)	Pass
			•	, , ,	
NO.	Prerequisites	No.	Test Data		
1	Access to browser				
2	access to registered account				
Test Scenario	Redirect to all pages				
Step#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Executed	
	click on travelmate logo	Goes to homepage	as expected	pass	
	Click on explore	Goes to explore page	as expected	PASS	
3	click on profile	goes to profile page	as expected	pass	
		+			
		÷	0 1 51		
	TM_006	Test Case Description	Go to profile page to see use	r details	
reated By	Siddharth	Reviewed By	Go to profile page to see use Muhammed	r details	
reated By	Siddharth			r details	
Created By Version	Siddharth	Reviewed By 1.2		r details	
Test Case ID Created By Version QA tester's log	Siddharth	Reviewed By 1.2		r details	
created By /ersion QA tester's log	Siddharth User name must be displayed on pro	Reviewed By 1.2	Muhammed	r details nay-23 Test Case (Pass/Fail	l) pass
created By /ersion QA tester's log	Siddharth User name must be displayed on pro	Reviewed By 1.2 file	Muhammed) pass
Created By /ersion QA tester's log Fester's Name	Siddharth User name must be displayed on pro Siddharth Prerequisites	Reviewed By 1.2 file	Muhammed) pass
Created By Version QA tester's log Gester's Name	Siddharth User name must be displayed on pro	Reviewed By 1.2 file Date Tested	Muhammed 2-N) pass
created By Version OA tester's log Vester's Name	Siddharth User name must be displayed on pro Siddharth Prerequisites	Reviewed By 1.2 file Date Tested	Muhammed 2-N) pass
created By Version OA tester's log Vester's Name	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser	Reviewed By 1.2 file Date Tested	Muhammed 2-N) pass
Created By /ersion DA tester's log fester's Name NO.	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser regstered account	Reviewed By 1.2 file Date Tested	Muhammed 2-N) pass
Created By /ersion DA tester's log fester's Name NO.	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser	Reviewed By 1.2 file Date Tested	Muhammed 2-N) pass
Created By //ersion DA tester's log rester's Name NO. 1 2 rest Scenario	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser regstered account displays firstname and last name	Reviewed By 1.2 file Date Tested No.	Muhammed 2-N Test Data	May-23 Test Case (Pass/Fail	
Created By /ersion DA tester's log rester's Name NO. 1 2 rest Scenario	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser regstered account displays firstname and last name Step Details	Reviewed By 1.2 file Date Tested No. Exprected Results	Muhammed 2-N Test Data Actual Results	Pass/Fail/Not Execu	
Created By //ersion DA tester's log Fester's Name NO. 1 2 Fest Scenario Step#	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser regstered account displays firstname and last name Step Details login	Reviewed By 1.2 file Date Tested No. Exprected Results goes to homepage	Muhammed 2-N Test Data Actual Results as expected	Aay-23 Test Case (Pass/Fail Pass/Fail/Not Execut	
Created By //ersion DA tester's log Fester's Name NO. 1 2 Fest Scenario Step#	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser regstered account displays firstname and last name Step Details	Reviewed By 1.2 file Date Tested No. Exprected Results	Muhammed 2-N Test Data Actual Results	Pass/Fail/Not Execu	
Created By //ersion DA tester's log Fester's Name NO. 1 2 Fest Scenario	Siddharth User name must be displayed on pro Siddharth Prerequisites Access to browser regstered account displays firstname and last name Step Details login	Reviewed By 1.2 file Date Tested No. Exprected Results goes to homepage	Muhammed 2-N Test Data Actual Results as expected	Aay-23 Test Case (Pass/Fail Pass/Fail/Not Execut	

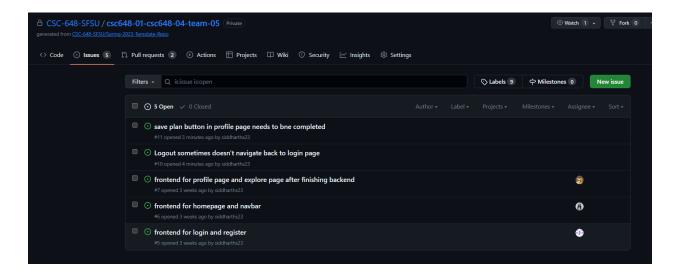
est Case ID	TM 007	Test Case Description	Try to see saved plans in profile		
eated By	Siddharth	Reviewed By	Muhammed	1	
			wunammeu	+	
ersion	-	5			
		<u> </u>			
QA tester's log	Try to see the saved plans on the use	rs profile page			
Tester's Name	siddharth	Date Tested	2-Mav-23	Test Case (Pass/Fail)	Fail
			,		-
NO.	Prerequisites	No.	Test Data		
		NO.			
	access to browser		email=sid@gmail.com		
2	registered account		pass= Siddharth@23		
Test Scenario	Displays a list of the saved plans				
Step#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Execute	_
	click on the profile page	goes to profile page	as expected	pass	
2	scroll down	must see list of saved plans under the saved plans hea	not ass expected	fail	
				1	1
			t a constant		
Test Case ID	TM_008	Test Case Description	click on explore page to see randor	n destinations	
Created By	Siddharth	Reviewed By	Muhammed		
/ersion	1	.5			
OA tester's los	Evolore nage must display all the range	domly generated destination with their photos			
A residi s 108	rybiole bake mast alshiay all the fall	Somy Senerated destination with their priotos			
					_
Fester's Name	Siddharth	Date Tested	3-May-23	Test Case (Pass/Fail)	Pass
NO.	Prerequisites	No.	Test Data		
	access to browser		email= sid@gmail.com		
	registered account	<u> </u>	pass= Siddharth@23		
	registered account	1	pass- siduliai tii@25		
				1	
Test Scenario	Explore page displays 5 random desti	nations		l 	
Step#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Executed	i
	click on explore	5 random destinations are displayed	as expected	pass	
	Charles Chiprore	o random destinations are displayed	as enpeated	pass	
		<u> </u>		-	
		1			
		İ			
		1		!	
est Case ID	TM 009	Test Case Description	click on random destination to gene	erate plan	
reated By	Siddharth	Reviewed By	Muhammed	piun	
			munanneu		
ersion/	1	.1			
A tester's log	The buttons must generate a random	plan using the api in the plan page			
ester's Name	Siddharth	Date Tested	3-May-23	Test Case (Pass/Fail)	pass
			3 May 23		
		N/-	T		
10	Daniel Control of the		Test Data	!	
	Prerequisites	No.	and the second second		
1	access to browser	NO.	email= sid@gmail.com		
1		NO.	email= sid@gmail.com pass= Siddharth@23		
1	access to browser	NO.			
1	access to browser	NO.			
1	access to browser registered account	NO.			
1	access to browser	NO.			
1 2 Test Scenario	access to browser registered account Generates random plan		pass=Siddharth@23		
1 2 Test Scenario	access to browser registered account Generates random plan Step Details	Exprected Results	pass=Siddharth@23 Actual Results	Pass/Fail/Not Executed	
1 2 Test Scenario	access to browser registered account Generates random plan Step Details click on explore		pass=Siddharth@23	Pass/Fail/Not Executed pass	1
est Scenario Step#	access to browser registered account Generates random plan Step Details click on explore	Exprected Results random destinations displayed	pass=Siddharth@23 Actual Results		
1 2 Test Scenario	access to browser registered account Generates random plan Step Details	Exprected Results	pass=Siddharth@23 Actual Results as expected	pass	
1 2 Test Scenario	access to browser registered account Generates random plan Step Details click on explore	Exprected Results random destinations displayed	pass=Siddharth@23 Actual Results as expected	pass	
1 2 Test Scenario	access to browser registered account Generates random plan Step Details click on explore	Exprected Results random destinations displayed	pass=Siddharth@23 Actual Results as expected	pass	
1 2 est Scenario tep# 1	access to browser registered account Generates random plan Step Details click on explore	Exprected Results random destinations displayed	pass=Siddharth@23 Actual Results as expected	pass	1

est Case ID	TM_010	Test Case Description	click on logout to go back to login pag	ge	
reated By	Siddharth		Muhammed		
ersion	Siddiffacti	_	Mananinea		
ersion		1			
A tester's log	User must be able to exit the website	through logout			
ester's Name	Siddharth	Date Tested	, T	est Case (Pass/Fail)	pass(minor bug
0.	Prerequisites	No.	Test Data		
	access to browser		email= sid@gmail.com		
	registered account		pass= Siddharth@23		
-	registered decount	-	puss- siduriar tries25		
est Scenario	Harris and the language and the lands are				
est Scenario	User must be logout to the login page	!			
tep#	Step Details			Pass/Fail/Not Executed	
1	click on logout	user is logged out and redirected to login page	user is logged out, but have to press	twice to go to login	
est Case ID	TM 011	Test Case Description	Generate plan in homepage with o	nly destination	
				any destination	+
reated By	Siddharth	Reviewed By	Muhammed	-	
ersion ersion		_1		<u>i</u>	
				į .	
A tester's lo	g The api must generate a plan based	on user input			
				1	
ester's Name	siddharth	Date Tested	3-May-29	Test Case (Pass/Fail)	pass
CSCCI S IVAIII	Siddilarai	bute resteu	5 Willy 25	Test case (Tass/Tall)	puss
				-	
10.	Prerequisites	No.	Test Data	<u> </u>	
	1 access to browser		email= sid@gmail.com		
	2 registered account		pass= Siddharth@23		
				!	
Fost Sconario	On clicking submit plan is generated				
rest scenario	On checking submit plan is generated	•			
				- to other con-	
itep#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Execute	<u>ed</u>
		bar search bar gets filled and starts generating the plan	As expected	pass	
	2 click on submit	Random plan appears as fields were empty	as expected	pass	
					7
	1	The state of the s			
		The state of the s		+	
				†	
	734 040			 	
	TM_012	Test Case Description	Generate plan with all fields filled		
ated By	TM_012 Siddharth	Reviewed By	Generate plan with all fields filled Muhammed		
eated By	_		-		
eated By	_	Reviewed By	-		
eated By rsion	Siddharth	Reviewed By	-		
eated By rsion	_	Reviewed By	-		
eated By rsion tester's log	Siddharth Plan is generated according to all inp	Reviewed By 1 uts of the user	Muhammed		narr
eated By rsion tester's log	Siddharth Plan is generated according to all inp	Reviewed By	Muhammed	Test Case (Pass/Fail)	pass
eated By rsion tester's log ster's Name	Siddharth Plan is generated according to all inp Siddharth	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2		pass
eated By rsion tester's log ster's Name	Siddharth Plan is generated according to all inp	Reviewed By 1 uts of the user	Muhammed		pass
eated By rsion tester's log ster's Name	Siddharth Plan is generated according to all inp Siddharth	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2		pass
eated By rsion tester's log ster's Name	Siddharth Plan is generated according to all inp Siddharth Prerequisites	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2 Test Data email= sid@gmail.com		pass
eated By rision A tester's log ster's Name D.	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2 Test Data		pass
eated By rsion tester's log ster's Name	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2 Test Data email= sid@gmail.com		pass
eated By virsion A tester's log ster's Name D	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2 Test Data email= sid@gmail.com		pass
eated By virsion A tester's log ster's Name D	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2 Test Data email= sid@gmail.com		pass
eated By ersion A tester's log ster's Name D. 1 2 st Scenario	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser	Reviewed By 1 uts of the user Date Tested No.	Muhammed 3-May-2 Test Data email=sid@gmail.com pass=Siddharth@23	3 Test Case (Pass/Fail)	
eated By ersion A tester's log ster's Name D. 1 2 st Scenario	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser	Reviewed By 1 uts of the user Date Tested	Muhammed 3-May-2 Test Data email= sid@gmail.com		
eated By rsion I tester's log ster's Name D. 1 2 set Scenario	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser registered account Step Details	Reviewed By 1 uts of the user Date Tested No.	Muhammed 3-May-2 Test Data email=sid@gmail.com pass=Siddharth@23	3 Test Case (Pass/Fail) Pass/Fail/Not Execut	
eated By rision utester's log ster's Name b. 1 2 st Scenario	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser registered account Step Details enter destination	Reviewed By 1 uts of the user Date Tested No. Exprected Results search bar filled	Muhammed 3-May-2 Test Data email= sid@gmail.com pass= Siddharth@23 Actual Results as expected	3 Test Case (Pass/Fail) Pass/Fail/Not Execut	
tester's log ster's Name 1 2 st Scenario	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser registered account Step Details enter destination enter number of days	Reviewed By 1 uts of the user Date Tested No. Exprected Results search bar filled search bar filled	Muhammed 3-May-2 Test Data email= sid@gmail.com pass= Siddharth@23 Actual Results as expected as expected	3 Test Case (Pass/Fail) Pass/Fail/Not Execut	
tested By rision tester's log ster's Name tester's Name tester'	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser registered account Step Details enter destination enter number of days enter preferences	Reviewed By 1 uts of the user Date Tested No. Exprected Results search bar filled search bar filled search bar filled	Muhammed 3-May-2 Test Data email=sid@gmail.com pass=Siddharth@23 Actual Results as expected as expected as expected as expected	3 Test Case (Pass/Fail) Pass/Fail/Not Execut pass pass pass	
eated By rision Intester's log ster's Name Intester's Name Intester's Steries Name Intester's Name Inte	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser registered account Step Details enter destination enter number of days enter preferences enter mode of transport	Reviewed By 1 uts of the user Date Tested No. Exprected Results search bar filled search bar filled search bar filled search bar filled	Muhammed 3-May-2 Test Data email=sid@gmail.com pass=Siddharth@23 Actual Results as expected as expected as expected as expected as expected	Pass/Fail/Not Execut pass pass pass pass pass	
eated By rision Intester's log ster's Name Intester's Name Intester's Steries Name Intester's Name Inte	Siddharth Plan is generated according to all inp Siddharth Prerequisites access to browser registered account Step Details enter destination enter number of days enter preferences	Reviewed By 1 uts of the user Date Tested No. Exprected Results search bar filled search bar filled search bar filled	Muhammed 3-May-2 Test Data email=sid@gmail.com pass=Siddharth@23 Actual Results as expected as expected as expected as expected as expected	3 Test Case (Pass/Fail) Pass/Fail/Not Execut pass pass pass	

Test Case ID	TM_013	Test Case Description	Click on save plan in plan page to	save it to profile	
Created By	Siddharth	Reviewed By	Yahya		
Version		1			
OA tostoris los	Clicking on save plan must save it to u	reds profile			
ua tester s log	Clicking on save plan must save it to t	iser profile			
Tester's Name	siddharth	Date Tested	30-Apr-	23 Test Case (Pass/Fail)	Fail
NO.	Prerequisites	No.	Test Data		
1	access to browser		email= sid@gmail.com		
2	registered account		pass= Siddharth@23		
Test Scenario	Plan must be saved				
		- 			
Step#	Step Details	Exprected Results	Actual Results	Pass/Fail/Not Executed	d
1	generate a plan by clicking submit	plan appears with save button below	as expected	pass	
2	click on save plan	plan is saved and appears on user profile	button doesn't work	fail	
				+	
				-	

GITHUB ISSUES TO TRACK ISSUES-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/issues

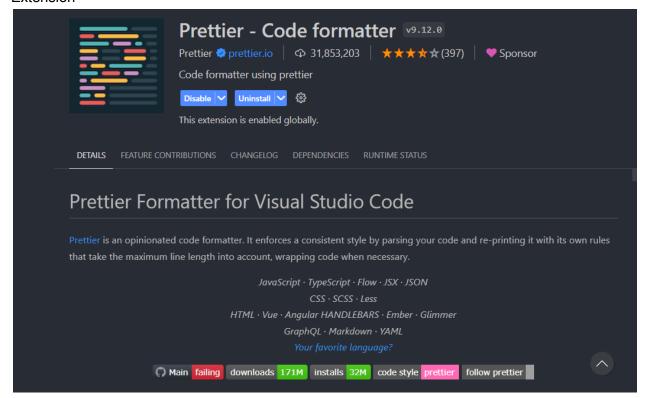


2) Coding practices

Coding style

As part of our coding standards, we decided to use Prettier to ensure consistent coding style throughout our codebase. We configured Prettier to follow the popular Google JavaScript Style Guide which covers a range of topics including variable naming, indentation, line length, and more. Prettier also helps us format our code automatically so we don't have to worry about minor formatting issues. It has significantly improved the readability and maintainability of our code. We have integrated Prettier with our code editor and version control system so every developer in our team can easily follow the same coding style. With Prettier, we can focus on writing clean and efficient code without worrying about formatting details.

Extension-



Source files formatted by prettier-

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/LoginPage.is

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/HomePage.js

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/ExplorePage.js

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/SignupPage.js

https://github.com/CSC-648-SFSU/csc648-01-csc648-04-team-05/blob/master/application/frontend/src/pages/ProfilePage.js

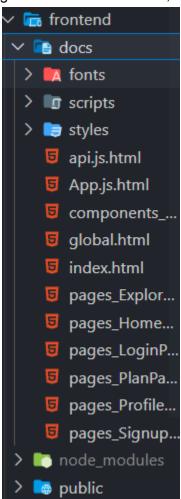
EXTRA CREDIT - DOCUMENTATION GENERATION

We used jsdoc to implement our documentation generator.

We first installed it by using npm i jsdoc. And then setup a docs start script in package.json to generate the documentation whenever we run npm docs.

```
"docs": "jsdoc -c jsdoc.conf.json",
```

The documentation is generated by adding comments that are recognized by jsdoc before every function and is automatically generated in the src folder as a docs folder. In order to see the generated documentation, we need to load th index.html file inside the docs folder.



```
PS C:\Users\siddh\Desktop\csc648-01-csc648-04-team-05\application\frontend> cd docs
PS C:\Users\siddh\Desktop\csc648-01-csc648-04-team-05\application\frontend\docs> start index.html
PS C:\Users\siddh\Desktop\csc648-01-csc648-04-team-05\application\frontend\docs>
```

Home

Home

Global

App
Explore
Homepage
LoginPage
Navbar
PlanPage
ProfilePage
SignupPage
createCompletion
destinations
fetchCompletion
getRandomDestinations
handleLogout
isValidJson

Documentation generated by JSDoc 4.0.2 on Wed May 03 2023 16:21:24 GMT-0700 (Pacific Daylight Time)

Video demonstration of jsdoc generation-

https://drive.google.com/file/d/1Jf_Uckw2CzDI4XWb1u_RjCLNPMFPd1a-/view?usp=sharing