TravelBuddy_TestPlan

1. Objective

- The purpose of this document is to track the features and functionality of that QA would be responsible for in terms of testing on "Travel Buddy".
- The main objective is to describe various technical areas QA owns for testing on "Travel Buddy" in alignment with the schedule given by the stakeholders.
- Ensure the application meets functional and non-functional requirements and to identify and resolve bugs before deployment.
- Identify new features and develop test cases and get them included in manual test plan.
- This page will also talk about how we schedule testing over milestones, where declare results, how we track the issues raised during the project
- execution.

1.1 Business Requirements

- QA team will follow the test planning and schedule/milestones along with Dev teams.
- QA team will execute the test one time which includes regression, automation and new features test.
- Once the build is stable, all the regression testing will be conducted by the Testing team.

2.Testing Scope

2.1 Test Plan Details and Execution Plan

For each phase of the execution can be found in Test Management Tool.(Example : Test Rail, TMS)

Type of Test	Features
Functional Testing	User Registration and Authentication
	Destination Exploration
	Trip Planning Tools
	Accommodation Booking
	Activity Discovery
	User Profile Management
	Payment Processing
	Upcoming Features

Non - Functional Testing	Performance Testing
	Usability Testing
	Security Testing
	Compatibility Testing

2.2 In Scope

Functional and Non-functional testing features mentioned above comes under QA Scope.

2.3 Out Of Scope

Unit testing are out of scope currently from the QA scope.

3. Testing Cadence/Process

- Manual Testing

  => In FC (Feature Complete) phase , Initial development of website tests and Basic Functionalities of the web application tests will be executed (Build Acceptance and Smoke Test)

  => In BD (Beta Declare) phase, Tests will be performed by Beta customer after feature complete.(Critical Path Test)

  => In GM (Grand Master) phase , Final tests will be performed and rolled out to end user . (Standard Test)

- Exploratory Testing

  =>Weekly/Monthly (need basis) exploratory testing will be done by identifying focus areas based on the Gerrit fixes merged.

- Bug Regression test

  => All bugs that are resolved as "Fixed, Needs Re-Testing" will be regressed when Testing team is notified of the new drop containing the fixes.

  => When a bug passes regression it will be considered "Closed, Fixed".

  =>If a bug fails regression, adopters testing team will notify development team.

  =>When a Severity 1 bug fails regression, adopters Testing team should also put out an immediate email to development.

  =>The Test Lead will be responsible for tracking and reporting to development and product management the status of regression testing

4. Test Management & Defect Tracking

4.1 Test Management Tool

Test suites, test runs and test cases will be stored at the Test Rail link for our QA team.

4.1.1 Functional Test Case

Test Case Title: Launch application in a web browser **Prerequisite** : Link of the website is required **Priority** : P0	
Test Steps	**Expected result**
Launch the application using the URL in web browser.	Application should launch without any issues/crash.
Observe the behavior	Website home UI should be seen without any distortion.

Test Case Title: Verify Sign Up Page **Prerequisite** : Link of the website is required **Priority** : P0	
Test Steps	**Expected result**
Check whether the Sign Up Pop up occurs once web application is launched.	Sign Up page popped up once the application is launched
Verify the Details Fields are shown	Sign Up should show Name, Email, Phone Number, City Of Residence , Travel Destination, No.of Days Travel, No.of.People Filed, Vacation Type as mandatory fields
Enter all the required details and Click on Submit button	Details Submitted successfully and sign up successful popped up successfully

Test Case Title : Verify Tab Navigations **Prerequisite** : • Home page is Launched • Username, password required for Login **Precondition :** • Home page should be launched successfully • Logged in to the account **Priority :** P0	
Test Steps	**Expected result**
Navigate to the Tabs listed in home page	Navigation should work without any issues and respective tab details should be highlighted and sub tabs are shown under each tabs.
Click on Each tabs and sub tabs available in home page	Clicking and tabs and sub tabs should redirect to their section which were hyperlinked

Test Case Title : Destination Exploration **Prerequisite** : • Home page is Launched • Username, password required for Login **Precondition :** • Home page should be launched successfully • Logged in to the account **Priority :** P0	
Test Steps	**Expected result**
Browse the desired destinations in search bar	Selected destination should display the detailed information about the specific details includes attractions, accommodations, and local amenities.
Select a package in a desired location	Package details should display respective details includes Duration, Travel Type, No.of.Person and tourist spots
Browse for different type of traveling such as flight, bus or train	Result should be appropriate for browsed options

Test Case Title : Verify Trip planning Tools	
Prerequisite :	
• Home page is Launched	
• Username, password required for Login	
Precondition :	
• Home page should be launched successfully	
• Logged in to the account	
Priority : P0	

Test Steps	Expected result
Go to profiles ->select New Profile Create Profile Save	New Profile should be created and saved successfully.
Edit the Profile and browse for desired location Save	Selected location should be updated in the profile
Click on Profile Select Desired Location No.of.Members, Add Hotels, Check In and Check out details Save	Edit option works without any issues , able to get the edited details after savings.

Test Case Title : Check Booking Confirmation	
Prerequisite :	
• Home page is Launched	
• Username, password required for Login	
Precondition :	
• Home page should be launched successfully	
• Logged in to the account	
Priority : P0	

Test Steps	Expected result
Click on Profile Select Desired Location No.of.Members, Add Hotels, Check In and Check out details Confirm Booking payment	All the details should be saved and payment page should be displayed
Go to Booking confirmation from profiles	User should able to confirm the booking in settings and confirmation mail should be sent

Test Case Title : Check upcoming Features Tab	
Prerequisite :	
• Home page is Launched	
• Username, password required for Login	
Precondition :	
• Home page should be launched successfully	
• Logged in to the account	
Priority : P0	

Test Steps	Expected result
Launch application - click upcoming features tab	upcoming features should be displayed
Click into new features	Information about new features should be visible

4.1.2 Non Functional Tests

Test Case Title : Check Performance Load

Prerequisite :

- Home page is Launched
- Username, password required for Login

Precondition :

- Home page should be launched successfully
- Logged in to the account

Priority : P1

Test Steps	Expected result
Give search inputs for multiple times with different user profiles and destinations	Able to search multiple inputs and different user logins occur without any app crash
Verify the time takes to return results and the number of results returned	Loading speed and memory usage of application should work fine with huge data sets and increased traffic

Test Case Title : Check the Compatibility of Web App

Prerequisite :

- App Link URL is required

Priority : P0

Test Steps	Expected result
Verify whether Travel Buddy is accessible in all browsers like Chrome, Firefox, Safari,	Able to launch app successfully in All web browsers

Test Case Title : Check the Security of Web App

Prerequisite :

- Login to the Application

Priority : P0

Test Steps	Expected result
Enter SQL commands into input fields	Verify Application should prevent the execution

4.1.3 Exploratory Testing :

Test Case Summary : Verify Support Chat in Home UI	
Test Steps	**Expected result**
Login and Click on Support Chat button in UI	Support chat page opened successfully
Click on Whatsapp or Gmail icon for chat support	Links navigated successfully for the respective pages and able to get the chat support

Test Case Summary : Try cancelling the booking after payments

Test Steps	Expected result
Login and select desired package	package selected successfully
Move the cart item to payment processing	Successfully moved to Payment page
Try cancelling the payment and navigate back	App should not crash when navigated back from cancelled payment
Verify the cart item is still available in Cart	Package is still in cart even payment processing is incomplete

Test Case Summary : Try adding reviews and photos from user perspective	
Test Steps	**Expected result**
Login and Try adding review comments and photos	User should be able to add review comments and photos

Test Case Summary : Verify Third Party Apps like redirects to application's home page	
Test Steps	**Expected result**
Login and Home page is displayed with 3P apps Whats app, Instagram and Facebook hyperlinks	Logged in successfully and 3P app links are available
Click on Third party app links for chat support/Ads	3P app links should redirect to respective application's URL.
Click Travel Buddy's advertise links in 3P Apps	User should redirect to Travel Buddy's home page from 3P App

Test Case Summary : Verify Email Notification sent to End User	
Test Steps	**Expected result**
Login and Home page is displayed	Logged in successfully and Home Page is Displayed
Book a Package and Payment is successful	Verify Email notification will be sent with detailed information of booking to the End User's mail id which is registered while Signing up.

4.2 Defect Management Tool

- Defect is defined as the deviation from the expected behaviors will be reported as bug in a Bug Tracking tool "JIRA"

4.2.1 Bug Priority :

Priority	Description	Response Time	Resolution Time
Blocker	Blocks development and/or testing work, production could not run Milestone could not be achieved. Irrecoverable user flow causing the user to stuck at one point	0.5 day	1 day
Critical	Crashes, loss of data, severe memory leak.	1 day	3 days
Major	Major loss of function	3 days	10 days
Minor	Minor loss of function, or other problem where easy workaround is present	5 days	12 days

4.2.1 Bug Template

Note :: This is an Assumption for referring a Bug Template

Bug Title	[App Launch crash Observed]

Severity	High
Priority	P0-Blocker
Environment	Windows , Chrome Browser 129.0
Description:	App Crash observed while Launch
Steps To Reproduce	1. Have a Stable Internet Connection 2. Launch Chrome web browser 3. Paste Travel Buddy's URL and click Enter
Expected Behavior	App should Launch successfully and Home page is displayed correctly
Actual Behavior	App Crash observed within 5seconds
Screenshot/Video	To be Attached with respective "Error Page"
Additional Notes	App Launch Observed in Other Browsers as well includes Firefox, Safari and Edge
Reproducibility Rate	5/5

4.3 Bug Status

Status	Description	Action
Screen	New issues that needs to be triaged.	Needs action from QA or Dev owner to update ETA and fix version. Bug can be forwarded to other teams or added to Open items for fixing
In Progress	This issue is being actively worked on at the moment by the assignee.	
Resolved	A resolution has been taken, and it is awaiting verification by reporter. From here issues are either reopened, or are closed	Dev owner resolves the bug with the root cause and version in which fix is available
Reopened	This issue was once resolved, but the resolution was deemed incorrect. From here issues are either marked assigned or resolved.	QA team reopens 'Resolved' bug if it is happening again. QA team needs to add comment with repro steps and build tested
Closed	The issue is considered finished, the resolution is correct. Issues which are closed can be reopened.	QA team verifies the fix and closes the bug if it is working fine. QA team needs to add comment with verification details and build tested.

5. Test Environment Requirements

Hardware	PC setup may include setting up different browsers for different testers or different OS for different testers.
Software	Install all necessary software, including operating systems, databases, application servers, and other dependencies
Bug Reporting Tool	A bug reporting tool should be included in the test environment for bug reporting.
Network	LAN and Wireless Medium to fulfill the requirement of the internet.

6. Control Procedures

6.1 Bug Reporting

- QA team will be adding bugs found during the validations to JIRA with required Label
- All the JIRAs will be triaged during bug triage meetings.

6.2 Entry Criteria

- All the new features are completed
- Product BAT test cases are all passing

6.3 Exit Criteria

- All the new feature test cases and regression test cases in manual
- All items committed and mentioned within the In-Scope section of this document are tested and the results are published
- All opened JIRA's are triaged and re-tested with no reproducibility of the issue

7. Testing Updates

- At every sprint meetings the QA lead for "Travel Buddy" will send an email to stakeholders highlighting the testing accomplishments and highlighted issues for the previous ending week.
- Details, results and status updates can be found in a documentation.