

**Test plan**

Budget Simple

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**Version history**

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| Version | Date | Author(s) | Changes | State |
| 1.0 | 17.09.2021 | Stela Trencheva | Test cases 01-36 | Draft |
| 1.1 | 20.10.2021 | Stela Trencheva | Test strategy | Draft |
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# Testing strategy and configuration management

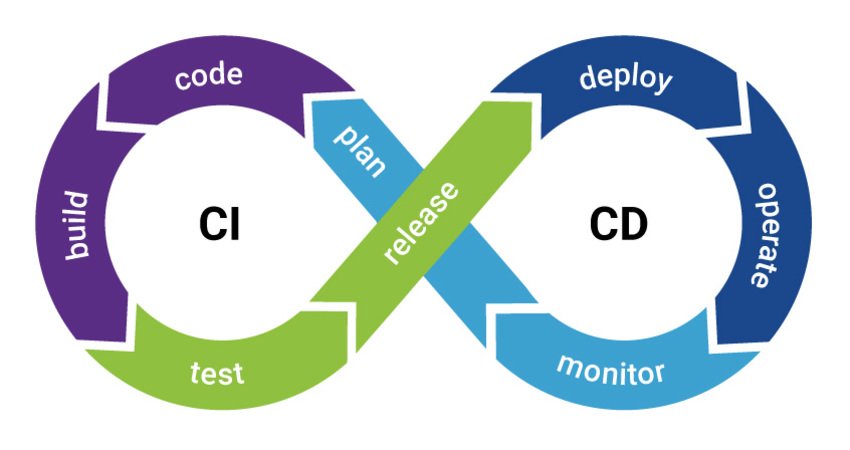
## Test strategy

The objective of the test is to verify that the functionality of BudgetSimple web application works according to the specifications. The test will execute and verify the test scripts, identify, fix and retest all high and medium severity defects.

* Unit tests will be implemented to test different units of the code and will be implemented each sprint for the newly added features
* User acceptance tests to evaluate a product, feature or prototype with real users
* System tests to test the whole system and will be done in the last sprint before release of the final product. The testing of some features that require to be tested often or are complicated and may be wrongly tested, will be automated. An example is the login in the application. For automated testing a software like Selenium will be used
* Regression tests to test if the whole program still works as it should when a new feature is added
* Integration tests to test behavior of components working together

## Test environment and required resources

The combined practice of continuous integration and continuous delivery is going to be used. *A management tool for the project will be Git CI/CD.*



User Acceptance Test Cases

|  |  |  |  |  |  |
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| ID | User story | Name | Pre-condition | Test data | Expected result |
| TC-01 | US-1 | Register |  |  | System shows a confirm message and creates an account |
| TC-02 | US-1 | Invalid data format while registering |  |  | Can’t create account; system shows warning message |
| TC-03 | US-2 | Login | Have an account in the system | **User account:**  - Username: testUser  - Password: testUser123  **Admin account:**  - Username: admin  - Password: admin123  **Customer service account:**  - Username: testService  - Password: testService123 | Log the user in the application and redirect him to the main page |
| TC-04 | US-2 | Wrong login data |  |  | Can’t log in the application; system shows a warning message |
| TC-05 | US-3 | Create wallet | Be logged in the application as a user |  | System shows a confirming message and redirects the user to the created wallet |
| TC-06 | US-3 | Not filled all fields when creating a wallet | Be logged in the application as a user |  | System shows a warning message and doesn’t add a wallet |
| TC-07 | US-4 | Set budget to a wallet | Be logged in the application as a user and have opened an existing wallet |  | System shows a confirming message and sets the budget |
| TC-08 | US-4 | Don’t enter an amount when setting budget | Be logged in the application as a user and have opened an existing wallet |  | System shows a warning message and doesn’t set the budget |
| TC-09 | US-5 | Add transaction | Be logged in the application as a user and have opened an existing wallet |  | System shows a confirming message, adds the transaction and updates the data in the wallet |
| TC-10 | US-5 | Has not filled mandatory fields when adding transaction | Be logged in the application as a user and have opened an existing wallet |  | System shows a warning message and doesn’t add the transaction |
| TC-11 | US-6 | Create invitation | Be logged in the application as a user and have opened an existing wallet |  | System displays invitation code |
| TC-12 | US-7 | Join a wallet | Be logged in the application as a user and have an invitation code |  | System shows a confirming message and redirects me to the wallet corresponding to the code |
| TC-13 | US-8 | Owed money | Be logged in the application as a user and have opened an existing wallet |  | System shows how much all and each of the members have spent and how much I owe to them / they owe to me |
| TC-14 | US-9 | Restrict activity of a member | Be logged in the application as a user and have opened an existing wallet of which I am the owner |  | System shows confirming message, changes the activity status of the member |
| TC-15 | US-10 | Statistics of spending for the whole time | Be logged in the application as a user and have opened an existing wallet |  | System shows how much I have spent for the whole period of time since the wallet was opened |
| TC-16 | US-10 | Statistics of spending for a date range | Be logged in the application as a user and have opened an existing wallet |  | System shows how much I have spent for the chosen period of time |
| TC-17 | US-10 | Statistics of spending per category | Be logged in the application as a user and have opened an existing wallet |  | System shows how much I have spent per specific category |
| TC-18 | US-10 | Statistics of spending for the whole time | Be logged in the application as a user and have opened an existing wallet |  | System shows how much I have spent for the whole period of time since the wallet was opened |
| TC-19 | US-11 | Predictions of spending for upcoming months | Be logged in the application as a user and have opened an existing wallet |  | System shows how much I might spent per category depending on the previous months |
| TC-20 | US-12 | Rate the application | Be logged in the application as a user |  | System shows overview of the rating and confirming message that It was submitted |
| TC-21 | US-12 | Not filled mandatory fields of the survey | Be logged in the application as a user |  | System shows warning message and does not submit the rating |
| TC-22 | US-13 | See submitted ratings | Be logged in the application as an admin |  | System shows all ratings sorted by rating points |
| TC-23 | US-14 | Add bonuses | Be logged in the application as an admin |  | System adds the bonus to the list and shows a confirmation message |
| TC-24 | US-14 | Not filled mandatory fields when adding a bonus | Be logged in the application as an admin |  | System display a warning message and doesn’t add the bonus |
| TC-25 | US-15 | Unlock bonus | Be logged in the application as a user and have fulfilled a particular task |  | System displays the discount code for the particular bonus |
| TC-26 | US-16 | See unlocked bonuses | Be logged in the application as an admin |  | System displays all bonuses and how many each of them have been unlocked |
| TC-27 | US-17 | Register new customer support employee | Be logged in the application as an admin |  | System shows a confirming message the new employee was registered in the system |
| TC-28 | US-17 | Not filled all fields when adding a new customer support employee | Be logged in the application as an admin |  | System shows a warning message and doesn’t add the employee to the system |
| TC-29 | US-17 | Filled data of already existing employee when adding a new customer support employee | Be logged in the application as an admin |  | System shows a warning message and doesn’t add the employee to the system |
| TC-30 | US-18 | Change password | Be logged in the application |  | System shows a confirming message that the password was successfully changed |
| TC-31 | US-18 | Not matching old password | Be logged in the application |  | System shows a warning message that the old password doesn’t match with the one in the system |
| TC-33 | US-20 | Contact customer support | Be logged in the application as a user |  | System shows the live chat and displays the commonly asked questions and answers |
| TC-32 | US-19 | Send message to customer support | Be logged in the application as a user |  | System shows the sent message in the chat |
| TC-33 | US-20 | See asked questions in the live chat | Be logged in the application as a customer support employee |  | System shows the asked question and the customer |
| TC-34 | US-20 | Answer a question in the live chat | Be logged in the application as a customer support employee |  | System shows the message that you sent in the live chat |
| TC-35 | US-21 | See customer support employees working hours | Be logged in the application as an admin |  | System displays all customer support employees and how many hours has each of them worked per month/week/day |
| TC-36 | US-22 | Scan QR code to join a wallet | Be logged in the application as a user and have an invitation QR code |  | System displays a confirmation message and redirects to the wallet corresponding to the QR code |