
TEST PLAN DOCUMENT

for

Social Serving Food Delivery System (SSFDS)

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1 Test Plan Outline

1.1 Introduction

The objective of this test plan is to test the functionality of the Social Serving Food Delivery System. The primary focus of this plan is to ensure that the System application should run smoothly and provide appropriate information to the user without any loss of information and covering most of the data in-consistencies.

1.2 Features to be tested

1.2.1 Sign up process

1. Test all three options to sign up
2. Test whether redirection working properly or not.
3. Appropriate message for successful sign up.
4. Appropriate error message for unsuccessful sign up.
5. Redirection to login page on successful sign up.

1.2.2 Login process

1. Redirection to user dashboard depending on type of user.
2. Appropriate error message if login is unsuccessful.

1.2.3 Customer

1. Should be able to see personal details.
2. Test redirection using various available buttons.
3. Should be able to see various restaurants.
4. Should be able to see menu of a particular restaurant and add food to cart.
5. Should be able to place order and make payment through both mode of delivery - COD and pre-paid.
6. Can opt for self pickup.

7. Should be able to donate their order to a particular NGO.
8. Should be able to see their order history.

1.2.4 NGO

1. Should be able to see personal details.
2. Test redirection using various available buttons.
3. Should be able to see various restaurants.
4. Should be able to see menu of a particular restaurant and add food to cart.
5. Should be able to place order and make payment through only pre-paid.
6. Should be able to see their order history.

1.2.5 Restaurant

1. Should be able to see personal details.
2. Test redirection using various available buttons.
3. Should be able to add/remove food items and their details in a particular time window provided by NPO.
4. Should be able to view order history.

1.2.6 NPO[Admin]

1. Should be able to see personal details.
2. Test redirection using various available buttons.
3. Should be able to see details of various customers, NGOs and restaurants.
4. Should be able to see transaction history.
5. Should be change time window for restaurants.
6. Should be able to approve an order request and assign a delivery agent.

2 Test Plans

2.1 Test Plan for Home Page

1. There should be 3 buttons : one for sign-up, next one for log-in and the last one to direct to user's dashboard if user is already logged-in. The header symbol also redirects to the homepage from every page. So the redirection must be correct.
2. If 3rd button is clicked and the user is not logged in , then appropriate message should be displayed.

2.2 Test Plan for Sign up Process

1. There should be three buttons referring to three different type of users i.e. ordinary customers, NGOs and restaurants. These buttons will redirect them to their respective sign-up pages.
2. Sign up page
 - a) Users will be required to enter valid email id and password.
 - b) Users will be required to enter their address.
 - c) Users can upload a photo. [optional]
3. Error handling while signing up
 - a) Possible errors
 - i. An account with entered email-id already exists.
 - ii. Required fields not filled.
 - iii. Invalid email id entered.
 - b) Appropriate message should be displayed and user will be redirected to same sign up page.
4. If the sign up is successful then the user is redirected to the login page stating the message of successful sign up.

2.3 Test Plan for Login Process

1. User will be required to enter their registered email id and password for logging in.

2. If wrong credentials are filled, then user will be informed that to enter correct credentials.
3. Appropriate message should be displayed when any of the required filed is not filled.
4. After the login is successful the system checks the user profile and redirects the user to their respective dashboard.

2.4 Test Plan for Customer Features

1. Personal Details
 - a) Button Redirection
When the button is pressed, then the user must be redirected to a page that will show the user the personal details that were added by them during sign up.
 - b) The details like Image, Name, Address and others will be shown (read only).
2. Buttons on the dashboard should redirect to the right page and provide the right functionality expected. As mentioned, the dashboard has many buttons corresponding to different pages and functionalities. The redirections must be correct, and must serve the purpose as mentioned by the label on the button.
3. Dashboard redirection should work fine. If the user presses on the Dashboard button in the top bar, then the user should be redirected to the dashboard, showing those buttons.
4. Cart
 - a) Button Redirection
When button is pressed a list of restaurants should be shown with their details. There will be a button to see the menu of a particular restaurant.
 - b) Menu list
When the button in restaurant list is clicked, whole Menu should be shown, with the name of item and price of one unit of it ,along a button to add certain quantity of food to cart.
 - c) Order Now
When the Order now button is clicked the customer is redirected to a new page where he can see the order and proceed to checkout and payment. Before payment there will be a button which states donate to an NGO. This will redirect to a new page consisting of list of NGO's, with there details and a button to select an NGO and donate them.
 - d) Select Mode of delivery
There will be two buttons, one saying delivery and other saying Self Pickup. User can select anyone and will be directed to payment page.

5. Select Payment method
If the user selects self pick up then he will be redirected to prepaid payment gateway, else he will be having drop-down for selecting pay on delivery or prepaid payment.
6. Proceed to Pay
This button redirects to a new gateway page for money transaction. After successful transaction, the user gets redirected to Home page.
7. Past Order list
 - a) Details of Past Orders The list will show all the orders that have been placed till now(excluding the running order). This will show the name of Restaurant, Date of Order, and a button to see the bill.
 - b) Check the Order
This will show the complete list of items placed by the customer and the detailed bill.

2.5 Test Plan for NGO Features

1. Personal Details
 - a) Button Redirection
When the button is pressed, then the user must be redirected to a page that will show the user the personal details that were added by them during sign up.
 - b) The details like Image, Name, Address and others will be shown (read only).
2. Buttons on the dashboard should redirect to the right page and provide the right functionality expected. As mentioned, the dashboard has many buttons corresponding to different pages and functionalities. The re directions must be correct, and must serve the purpose as mentioned by the label on the button.
3. Dashboard redirection should work fine. If the user presses on the Dashboard button in the top bar, then the user should be redirected to the dashboard, showing those buttons.
4. Cart
 - a) Button Redirection
When button is pressed a list of restaurants should be shown with their details. There will be a button to see the menu of a particular restaurant.
 - b) Menu list
When the button in restaurant list is clicked, whole Menu should be shown, with the name of item and price of one unit of it ,along a button to add certain quantity of food to cart.

- c) Order Now
When the Order now button is clicked the NGO is redirected to a new page where he can see the order and proceed to checkout and payment.
- 5. Proceed to Pay
This button redirects to a new gateway page for money transaction. After successful transaction, the user gets redirected to Home page.
- 6. Past Order list
 - a) Details of Past Orders The list will show all the orders that have been placed till now(excluding the running order). This will show the name of Restaurant, Date of Order, and a button to see the bill.
 - b) Check the Order
This will show the complete list of items placed by the customer and the detailed bill.

2.6 Test Plan for Restaurant features

1. Personal Details
 - a) Button Redirection
When the button is pressed, then the user must be redirected to a page that will show the user the personal details that were added by them during sign up.
 - b) The details like Image, Name, Address and others will be shown (read only).
2. Dashboard redirection should work fine. If the user presses on the Dashboard button in the top bar, then the user should be redirected to the dashboard, showing those buttons.
 - a) Details of Past Orders The list will show all the orders that have been placed till now. This will show the name of Customer, Date of Order, and a button to see the bill.
 - b) Check the Order
This will show the complete list of items placed by the customer in their restaurant and the detailed bill.
3. Editing menu
There will be an option in dashboard which will redirect to edit menu page during time window provided by NPO.
 - a) Adding food item
 - i. There will be an option to add a food item by entering its quantity(an integer : required), its title(required) and its description(optional).

- ii. Appropriate message should be displayed on entering invalid details (for example non-integer values for quantity) or not filling required fields.
- b) Remove food item
There will be an option to remove a particular food item from menu.
- 4. Testing time window slot for editing menu
It is to be tested that restaurants are unable to access edit menu page in time other than window provided by NPO.

2.7 Test Plan for NPO[Admin] features

1. No Registration of Admin should be allowed as only person can own the site and to avoid any misuse of Admin Rights.
2. Dashboard redirection should work fine. If the user presses on the Dashboard button in the top bar, then the user should be redirected to the dashboard, showing those buttons.
3. Dashboard
 - a) This will have a button to show all Users registered in the software.
 - b) "Show Details" button is present for each user which on clicking show details of the user
4. Time window for restaurants
There will be an option to change the time window where restaurants are allowed to edit their menu.
5. Process Order request
 - a) It is to be tested that NPO is able to approve an order request and assign a delivery agent.
 - b) When a customer is choosen for self pick-up, it is to be tested that NPO is not assigning a delivery agent for it.

2.8 Approach

2.8.1 Methodology

We aim to achieve Agility using Scrum Development Methodology in this project. We approach the project with continual planning, learning, improvement, team collaboration, evolutionary development, and timely completion. Encouraging flexible responses to change. We emphasize on individual and team interactions over processes and tools.

2.8.2 Test Types

Software testing will be performed by developers instead of a third party due to the small nature of the project. Exhaustive testing is not possible. As we need the optimal amount of testing based on the risk assessment of the application.

1. **Unit Testing**

We will focus on smaller units of the software design. In this, we will test an individual unit or group of interrelated units. It is often done by the programmer by using sample input and observing its corresponding outputs.

2. **System Testing**

Software will be tested such that it works fine on different operating systems primarily Linux, Windows and macOS. We will follow the black box testing technique. In this, we will be focusing on the required input and output without focusing on internal working with special emphasis on page protection while doing security testing.

3. **Regression Testing**

Adding new files leads to changes in the program. We make sure that the whole component works properly even after adding new components to the complete program.

2.8.3 Meetings

Test meeting will be done at the end of the day to check for errors within the code written during that day. Additional meetings can be done as required for emergency situations.

2.9 Environmental Needs

1. There are no special hardware requirements for running the app.
2. Test data will be provided to the software by performing demo orders, demo user creation etc.
3. There are no specific requirements apart from a working email id and a working internet connection, while testing the software.
4. There are no specific data ranges apart from keeping the size of images small (so image uploading and retrieval will be done faster). And also while testing use of unique data is preferred because repetition of data in user creation will give an error.
5. Each part of a multipart feature should be tested at least once by creating dummy users, dummy orders etc.

6. There is no restricted use of the system during testing. This software is a web app, every session of the user will be separate, and all will be handled simultaneously by the server via mongodb. So other users will not be affected when testing the software.

2.10 Software Risk Issues

All npm packages should be in the versions as mentioned in the requirements.txt file. If that didn't work , you can troubleshoot by updating the npm packages to their latest version.