

Test Plan Document

By CleanFrame

Section: C

Group Name: CleanFrame

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1.0 INTRODUCTION

Since, we are building a server based application i.e. CleanFrame, the testing phase is a crucial phase in order to provide all the stakeholders with a seamless experience in the near future. For achieving that, this test plan includes all the steps to be taken in the testing phase. It includes the objectives, scope, schedule, risks, assumptions and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

2.0 OBJECTIVES AND TASKS

2.1 Objectives

The test plan was developed to observe the feasibility of our website ie. CleanFrame as a crucial tool that can help in smoothing the process of hiring interns from colleges. The main objective is to test the prototype under different conditions ranging from least intensive conditions to the extreme conditions.

Features like registering, logging in, logging out, banning users etc. can be termed as one of the most decisive test cases as they involve the use of databases, network connectivity, website responsiveness, taking inputs, etc. and involve security issues. Such issues can be tedious to be resolved and can sometimes require the complete revamp of the backend for its resolution.

Whereas the loading of forms to be filled and checking whether all the required fields have been filled, permissions selections, etc. can be classified as less intensive test cases as they are easy to be resolved, require less manpower and are resource intensive.

2.2 Team Members

1. Aditya Aggarwal
2. Divy Agrawal
3. Anmol Bansal
4. Ambika Singh Koushik

3.0 SCOPE

The scope of testing phase is to provide capability to the tester to find all possible mishappenings in the functionality of the program and gives the tester all control over the website to be locally run. So that at the end of the testing phase, a tester/team member must be able to:

1. Conduct feasibility analysis on the features of the prototype
2. Gather relevant data for analysis purpose

3. Enter results and appropriate comments
4. View results
5. Propose modification to the final design of prototype

Such relevant data could speed up the process of rectifying problems and also check every angle possible where stakeholders are individually/wholesomely i.e. in an integrated way interact with each other. Alongway testing, proposed modifications shall be recorded and used for fixing the bugs.

4.0 Requirements

4.1 Hardware

Any intel processor above intel pentium dual core and it's integrated graphics is more than sufficient as hardware components for running the local server smoothly.

4.2 Software/tool

The following softwares are a necessity for every tester to have installed on their systems in order to get the website server running and find bugs:

- asgiref==3.2.10
- Django==3.0.8
- gunicorn==20.0.4
- Pillow==7.2.0
- pytz==2020.1
- sqlparse==0.3.1
- whitenoise==5.2.0
- django-twilio==0.13.1
- twilio==6.50.1

5.0 TESTING STRATEGY

This section describes what is being tested, such as all the functions of a specific product, its existing interfaces, integration of all functions and the .

Here find enlisted all the features that are needed to be tested in the phase 1(individual):

1. Responsiveness of all the databases used
 - a. User's credentials and registered password
 - b. Staff's credentials and permissions granted
 - c. Notifications panel
 - d. Rankings of a particular test conducted
2. Display Contents on a particular webpage
3. UI Styling of the individual pages

4. OTP generation and verification for various features

Here find enlisted all the features that are needed to be tested in the phase 2(integrated functionalities of the above features):

1. Transitioning to a specific page from a specific page on press of a specific button/request(starting from 'homepage' till end of 'profile page' of different stakeholders)
2. Responsiveness of specific queries run on databases to satisfy a service such as:
 - a. Sending OTP to registered users' email addresses/phone numbers details for verification and further processing.
 - b. Banning/Unbanning users on command of admin
 - c. Sending notification to particular users on demand
 - d. Uploading Blogs from database to homepage automatically

In the case of CleanFrame, a tester is expected to devise test cases for which bugs were found as mentioned above and propose those test cases to provide a base for resolution of common problems which would be solved using an agile approach.

At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested. All the analysis will be conducted once relevant data are obtained which in this case would be the test cases which would form the basis of resolution of a problem whether it is from phase 2 or phase 1.

6.0 Test Details

- **Login Testing**
 - When user enter the username/email the it must be exist
 - Password should be matched with respected user
- **Sign Up Testing**
 - User must not be exist
 - OTP verification for email
 - Resend OTP to email
- **Forgot Password Testing**
 - Forget Password
- **Notification Testing**
 - Get/delete notification
- **Change password Testing**
 - If user is logged in only then this test is performed
 - If basic requirement for changing the password is meet then change the password

- **Dashboard Testing**
 - Different dashboard for different user
 - Checking whether the user is restricted or not
- **Internship registration Testing**
 - Satisfy all eligibility criteria
 - Show in which company you have registered and the result
- **Edit profile Testing**
 - Change the user profile image
 - Change the CV of student
 - Change the phone number
 - Change other detail
- **View Profile Testing**
 - Show the last saved profile
 - Visibility of profile
 - Delete account permanently
- **Announcement Testing**
 - Create new announcement
 - Announcement of new round
 - Show previous announcement
 - Show there results
 - Seize result
 - Edit/delete announcement
- **My internship Testing**
 - Create a new internship
 - Show previous internship
 - Show there result
 - Edit/delete internship
- **Manage account Testing**
 - Restrict user
 - Unrestrict user
 - Permit new student account
 - Permit new company account
 - New company account created by staff
- **Manage blogs Testing**
 - New blog
 - Edit blog
 - Delete blog
 - View blogs

- **Manage Staff Account Testing**
 - New staff account with permission
 - Edit staff permissions
 - Delete staff account
 - Show all staff accounts

- **Float Notification Testing**
 - Show all users
 - New notification

- **Manage Support Testing**
 - Show all user who requested for support
 - Reply to requested support

7.0 Test Schedule

Task Name	Start	Finish	Comments
Test Planning			
Review Requirement documents	23/03/2021	31/03/2021	
Functional Testing			
Login test	25/03/2021	25/03/2021	User Credentials authentication (valid/invalid)
Sign Up test	25/03/2021	25/03/2021	New student verified account and tested runs
Forgot password test	25/03/2021	25/03/2021	Changed the password and tried to authenticate with previous one
Notification test	28/03/2021	28/03/2021	Send notification to created user
Change password test	26/03/2021	26/03/2021	Changed User Password
Dashboard test	26/03/2021	26/03/2021	-
Internship registration test	28/03/2021	28/03/2021	-
Edit profile test	28/03/2021	28/03/2021	Edited the student profile by changing name of the user

View Profile test	27/03/2021	27/03/2021	Asserted the saved profile with checks
Announcement test	29/03/2021	29/03/2021	Announcement created by shifting student into company account
My internship test	29/03/2021	29/03/2021	Asserted the number of internships of company
Manage blogs test	31/03/2021	31/03/2021	Created new blog
Manage staff account test	1/04/2021	2/04/2021	Staff Account created and deleted by removing all permissions
Float notification test	2/04/2021	4/04/2021	Created new notification for student
Manage support test	2/04/2021	4/04/2021	Created new support request
Resolution of final defects and final build testing			
Implement modifications			

8.0 Feature which have been tested

- Sign Up
- OTP verification for email
- Email notification(OTP, delete account etc.)
- Resent OTP to email
- Profile verification by admin
- Login
- Password Authorisation
- Forget password
- Basic profile completion
- Phone number verification
- OTP verification for phone
- Resend OTP to phone
- Edit profile
- Delete my account
- Create company account via staff and admin
- Search users
- Float Notification
- General announcement
- Announce new internship

- Delete internship
- Register for internship
- Announce new round
- Delete round
- Declare result
- Accept or reject internship
- Rollback application form
- Manage staff account
- Delete staff account
- Update staff permission
- Profile verification by staff
- Restrict user
- Unrestrict user
- Manage blogs
- Manage/get tech support

9.0 Deliverables

Deliverable	For	Date\Milestone
Test plan	All team members	5/04/2021
Test result	All team members	5/04/2021
Test status report	All team members	5/04/2021
Metrics	All team members	5/04/2021

10.0 Risk/Assumption

- Obviously the risk is from the attackers trying to intrude into the website.
- May be any intruder trying to send big size packages to the website externally which will slow down the website speed or may serve down if firewalls are not activated.
- Since there is no SSL security certificate given to the website, the password is not secured for http web address to the website, so in that case always use the https web address.