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**DHIRUBHAI AMBANI INSTITUTE OF INFORMATION  
AND COMMUNICATION TECHNOLOGY**



**IT314 - SOFTWARE ENGINEERING**

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**SYSTEM TESTING**

**CRIME AND HAZARD MANAGEMENT SYSTEM**

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# System Testing

The website was set up on a local host server, to mimic the production environment. The testers were then able to access the website through a web browser by entering the local host server's IP address or hostname.

In addition to testing on a local server, the website was also hosted in such a way that it could be accessed from anywhere in the world. This allowed for more comprehensive testing of the website's functionality by un-biased users.

During this testing process, all of the functionality of the website was thoroughly tested. This likely involved navigating through the website and performing various actions, such as clicking links, filling out forms, and interacting with page elements. The users would have observed the website's behavior and checked for any unexpected issues or errors. Any issues found have been reported to the team for further investigation and resolution.

During this phase we also tried to Black Box test our website. We tried to manually give inputs to the website and observed the output we received. We checked if the output received was correct and adhered to standards expected by us. While doing this we also checked if the website was able to respond properly by redirecting, loading information, error messages etc based on the situation as required. Any faults encountered during this process were reported and resolved as soon as possible either by the developer himself or other team members.

## Black box testing

Here is a short list of test cases that were tested during this Black Box testing:

### Login Page:

- Verify that the user is able to log in with valid credentials.
- Verify that the user is not able to log in with invalid credentials.
- Verify that the user is not able to log in with an empty username or password field.
- Verify that the user is able to reset their password using the "Forgot Password" feature.
- Verify that the user is redirected to the appropriate page after successful login.
- Verify that an error message is displayed when the user enters incorrect credentials.

## **Profile Page:**

- Verify that the user is able to view their profile information.
- Verify that the user is able to edit their profile information.
- Verify that the changes made by the user are saved and displayed correctly.
- Verify that the user is able to change their password.
- Verify that the user is able to view their post history.

## **Post Page:**

- Verify that the user is able to create a new post.
- Verify that the user was able to get precise longitude and latitude from the map frame provided on the web page.

## **Feed Page:**

- Verify that the user is able to search through the post page by providing a test prompt.

# **Acceptance level testing**

## **Some Acceptance level Test cases that we tried to achieve were:**

- Verify that the user is able to search for properties by entering an address or location.
- Verify that the search results display the Crime and Hazard Safety percentile scores for each property.
- Verify that the user is able to view more detailed statistics for a property by clicking on it.
- Verify that the website provides accurate and up-to-date information about the crime and hazard profiles of properties.
- Verify that the user is able to visually filter property by Crime and Hazard Safety percentile scores.
- Verify that the website provides helpful resources and information for homebuyers and renters, such as tips for staying safe in high-crime areas or preparing for natural disasters.
- Verify that the website is easy to use and navigate, with clear and concise information presented in a visually appealing manner.