Test Strategy – Loan Prediction III Contest Page

URL: https://www.analyticsvidhya.com/datahack/contest/practice-problem-loan-prediction-iii/

1. Introduction

This document explains how I plan to test the Loan Prediction III contest page on Analytics Vidhya. The goal is simple — make sure the page works smoothly for users, whether they are just browsing the problem statement or trying to participate in the contest.  
  
2. Objective

The main objectives of this testing are:  
- To ensure the page loads correctly and quickly.  
- Check all the links, buttons, and sections work as expected.  
- Confirm the page looks and behaves well on desktop, tablet, and mobile.  
3. Scope of Testing

In Scope

- Page loading and navigation.  
- Validating main sections: Problem Statement, Rules, and Evaluation.  
- Testing primary buttons like Participate Now and Leaderboard.  
- Negative testing for invalid inputs in the login popup.  
- Responsive layout checks on desktop, tablet, and mobile.  
- Basic performance and accessibility audits using Lighthouse.  
- Checking if the site uses HTTPS for secure connection.

Out of Scope

- Backend API and database testing.  
- Automating OTP login (can be validated manually).

- CAPTCHA or OTP validations cannot be automated but will be verified manually.

5. Testing Approach

**Type of Testing**

**Purpose**

Functional Testing

Check if links, buttons, and sections work correctly.

UI/UX Testing

Ensure the page looks clean and is easy to navigate.

Responsive Design Testing

Test the layout on desktop, tablet, and mobile.

Negative Testing

Validate proper error handling for invalid inputs.

Accessibility Testing

Ensure the page is usable and readable for all users.

Basic Performance Testing

Check load time.

Basic Security Testing

Confirm HTTPS and secure lock icon are present.

6. Test Environments

Device

Browsers

Operating Systems

Desktop/Laptop

Chrome, Firefox

Windows 10/11, macOS

Mobile Phones

Chrome, Safari

Android, iOS

Tablets

Chrome, Safari

Android, iOS

7. Tools Used

Purpose

Tool

Why

Manual checks & inspection

Chrome DevTools

Easy to debug and verify links, elements, and network calls.

Responsive layout checks

Chrome DevTools Responsive Mode

Quick way to simulate mobile and tablet views.

Functional automation

Selenium + TestNG

Reliable and standard automation for UI testing.

Performance and accessibility audits

Lighthouse, Axe plugin

Simple tools for scoring and basic checks.