**Test Strategy for Testing https://www.makemytrip.com/**

**1. Introduction:**

- The purpose of this test strategy is to outline the overall approach, objectives, and methodologies for testing the front-end functionality of the https://www.makemytrip.com/ website.

**2. Testing Objectives:**

- Validate the user interface (UI) components, layout, and design elements for consistency, clarity, and adherence to branding guidelines.

- Verify the functionality of key features such as flight booking, hotel booking, bus booking, holiday packages, and others.

- Ensure responsiveness across various devices and screen sizes, including desktops, laptops, tablets, and smartphones.

- Confirm compatibility with different browsers and operating systems to provide a consistent user experience.

- Identify and report any usability issues, performance bottlenecks, or accessibility concerns.

**3. Test Approach:**

**- Manual Testing:**

- Experienced testers will conduct exploratory testing to simulate real-world user interactions and identify any issues with usability or functionality.

- Testers will execute test cases covering various scenarios, including positive and negative test cases, to validate expected behaviour and error handling.

**- Automated Testing:**

- Automation scripts will be developed using tools such as Selenium WebDriver to perform regression testing and ensure consistent behaviour across different browsers and devices.

- Test automation will focus on repetitive tasks such as form validation, navigation, and UI interactions to improve efficiency and reliability.

**- Cross-Browser and Cross-Device Testing:**

- Testing will be conducted across a range of browsers, including Chrome, Firefox, Safari, and Edge, to ensure compatibility and consistent rendering of UI elements.

- Devices with different screen sizes and resolutions will be used to verify responsiveness and ensure optimal user experience across various devices.

**- Performance Testing:**

- Load testing and stress testing will be performed to assess the website's performance under normal and peak traffic conditions.

- Performance metrics such as page load times, response times, and server latency will be measured and analysed to identify potential bottlenecks and areas for optimization.

- Usability and Accessibility Testing:

- Usability testing will involve evaluating the intuitiveness and ease of use of the website's navigation, search functionality, and booking process.

- Accessibility testing will ensure compliance with accessibility standards such as WCAG (Web Content Accessibility Guidelines) to make the website usable for people with disabilities.

**4. Test Environment:**

- Operating Systems: Windows, macOS, iOS, Android

- Browsers: Chrome, Firefox, Safari, Edge

- Devices: Desktop, Laptop, Tablet, Smartphone

- Screen Resolutions: Various resolutions ranging from 1024x768 to 4K

- Network: Both high-speed and low-speed connections

**5. Defect Management:**

- Defects will be logged using a defect tracking tool such as Jira or Bugzilla, including detailed information such as steps to reproduce, screenshots, and severity.

- Defects will be categorized based on severity (Critical, Major, Minor) and priority (High, Medium, Low) to facilitate prioritization and resolution.

**6. Test Reporting:**

- Test reports will be generated to summarize test results, including the number of test cases executed, pass/fail status, defects identified, and any recommendations for improvement.

- Test reports will be shared with relevant stakeholders, including developers, product owners, and project managers, to communicate the status of testing and any risks or issues identified.

**7. Risks and Mitigation:**

- Risks associated with front-end testing may include browser compatibility issues, responsive design challenges, and performance bottlenecks.

- Mitigation strategies will be implemented to address these risks, including thorough testing across different browsers and devices, performance testing, and continuous monitoring during test execution.

**8. Test Exit Criteria:**

- All test cases have been executed and passed, or known defects have been documented and approved for release.

- Performance benchmarks and acceptance criteria have been met, indicating readiness for production release.

- Test reports have been reviewed and approved by relevant stakeholders.

**9. Review and Approval:**

- This test strategy document will be reviewed and approved by the project manager, QA lead, and other relevant stakeholders before testing begins.

This test strategy provides a structured approach for testing the front-end functionality of the https://www.makemytrip.com/ website, ensuring a high-quality user experience across different platforms and devices.