Manual Test Plan – IRCTC Web Application

# 1. Test Plan Title:

Manual Functional & UI Testing for IRCTC Web Application

# 2. Objectives:

The objective of this test plan is to:  
- Validate the core functionalities of the IRCTC web application (https://www.irctc.co.in)  
- Ensure smooth user experience during train ticket booking  
- Identify any functional bugs, UI inconsistencies, and input validation issues  
- Confirm the site performs correctly across modern browsers

# 3. Scope of Testing:

In Scope:

- User Registration and Login  
- Train Search & Seat Availability  
- Ticket Booking Flow (till payment page)  
- PNR Status Check  
- Cancel Ticket (for demo booking)  
- UI Elements (buttons, layout, responsiveness)

Out of Scope:

- Backend API testing  
- Actual Payment Gateway Integration  
- Mobile App Testing  
- Integration with Tatkal quota booking

# 4. Features to Be Tested:

|  |  |
| --- | --- |
| Module | Features |
| Authentication | Register, Login, Forgot Password, Captcha handling |
| Train Search | Source/Destination selection, date input, class filter |
| Availability | Seat availability by date and quota |
| Booking Flow | Select train, passenger details input, confirmation before payment |
| PNR Status | Valid PNR check, invalid PNR error message |
| UI Validation | Element alignment, field validation, mobile responsiveness |
| Error Handling | Invalid login, missing input fields, unsupported date selection |

# 5. Test Deliverables:

|  |  |
| --- | --- |
| Deliverable | Description |
| Test Plan Document | This document with objective, scope, and criteria |
| Test Scenarios & Test Cases | Excel file with at least 30+ detailed test cases |
| Bug Reports | Defect log in Excel or Jira with severity/priority |
| Requirement Traceability Matrix | Mapping features to test cases |
| Test Summary Report | Overall test execution metrics and observations |

# 6. Entry Criteria:

- Stable version of IRCTC web app is accessible  
- Functional requirements or feature understanding is ready  
- Test environment and test data are available  
- Test cases are reviewed

# 7. Exit Criteria:

- All major test cases executed  
- Critical and high severity bugs are resolved and re-tested  
- Test summary report is shared  
- No open blocker defects

# 8. Assumptions & Dependencies:

- Test environment remains stable during the cycle  
- Testers have valid IRCTC test accounts or dummy data  
- No major functional changes will be pushed during testing  
- External API (PNR status, Train search) remains accessible

# 9. Timeline (Example):

|  |  |  |
| --- | --- | --- |
| Phase | Start Date | End Date |
| Test Case Writing | Aug 1 | Aug 3 |
| Test Execution | Aug 4 | Aug 7 |
| Bug Reporting/Fix | Aug 4 | Aug 9 |
| Final Report | Aug 10 | Aug 11 |