



iJustPaid – Testing Documentation (For Testers)

1. Purpose of This Document

This document defines the **testing strategy, scope, test scenarios, and procedures** for the **iJustPaid** web application.

It helps testers understand **what to test, how to test, and expected behavior** of the system.

2. Application Summary (For Testers)

iJustPaid is a web-based automation system that:

- Scrapes deals from multiple platforms
 - Processes & filters deal data
 - Sends deal notifications to WhatsApp groups automatically
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3. Testing Scope

In-Scope Testing

- ✓ Frontend UI testing
- ✓ Backend API testing
- ✓ Scraping validation
- ✓ Data processing & deduplication
- ✓ WhatsApp message delivery
- ✓ Scheduling & automation
- ✓ Error handling & logging

Out-of-Scope

- ✗ Third-party platform internal logic
- ✗ WhatsApp server-side issues
- ✗ Affiliate tracking accuracy

4. Testing Types

4.1 Manual Testing

- UI validation
- Message format verification
- Data accuracy checks

4.2 Functional Testing

- Scraper correctness
- API response validation
- WhatsApp sending flow

4.3 Integration Testing

- Scraper → Backend
- Backend → Database
- Backend → WhatsApp API

4.4 Regression Testing

- After new platform addition
- After scraper updates
- After WhatsApp API changes

4.5 Performance Testing (Basic)

- Scraping response time
- Message send delay

- System stability under load
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5. Test Environment

Environment Details

- **Frontend:** React + TypeScript
- **Backend:** Node.js + Express
- **Database:** MongoDB / PostgreSQL
- **Automation:** Cron Jobs
- **Messaging:** WhatsApp API

Test Data

- Dummy product URLs
 - Test WhatsApp group
 - Mock deals
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6. Test Scenarios & Test Cases

6.1 Frontend Testing

Test Case	Description	Expected Result
UI-01	Page loads correctly	No broken layout
UI-02	API error handling	Error message shown
UI-03	Scraping status visible	Correct status shown

6.2 Scraping Module Testing

Test Case	Description	Expected Result
SCR-01	Scrape valid platform	Deals extracted
SCR-02	Platform down	Graceful failure
SCR-03	DOM structure change	Error logged
SCR-04	No deals available	Empty result handled

6.3 Data Processing Testing

Test Case	Description	Expected Result
DATA-01	Duplicate deals	Only one stored
DATA-02	Invalid price	Deal rejected
DATA-03	Missing fields	Deal skipped
DATA-04	Old deal	Not resent

6.4 Backend API Testing

Test Case	Description	Expected Result
API-01	Fetch deals API	200 OK
API-02	Invalid request	400 error
API-03	Unauthorized access	401 error
API-04	Server error	Logged properly

6.5 WhatsApp Notification Testing

Test Case	Description	Expected Result
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WA-01	Send new deal	Message delivered
WA-02	Duplicate deal	Message not sent
WA-03	WhatsApp API down	Retry or log error
WA-04	Invalid group ID	Failure logged

6.6 Scheduling & Automation Testing

Test Case	Description	Expected Result
CRON-01	Cron triggers	Scraping starts
CRON-02	Overlapping jobs	No duplication
CRON-03	Restart server	Jobs resume
CRON-04	High frequency	System stable

7. Negative Testing Scenarios

- Invalid platform URL
- Network timeout
- WhatsApp rate limit exceeded
- Database connection failure
- Scraper crash mid-process

Expected:

System should **not crash** and errors should be **logged properly**.

8. Test Execution Process

1. Setup test environment
2. Configure test WhatsApp group

3. Run scraper manually
 4. Validate database entries
 5. Verify WhatsApp messages
 6. Review logs
 7. Report defects
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9. Bug Reporting Guidelines

Each bug should include:

- Bug ID
 - Module name
 - Steps to reproduce
 - Actual result
 - Expected result
 - Screenshots / logs
 - Severity & priority
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10. Severity Levels

Level	Description
Critical	System crash
High	Deal not sent
Medium	Incorrect data
Low	UI / text issue

11. Test Exit Criteria

Testing is considered complete when:

- All critical & high issues fixed
 - No duplicate deal sending
 - WhatsApp delivery stable
 - Scraping success rate acceptable
 - Logs show no unresolved errors
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12. Tester Checklist

- ✓ Scraper running successfully
 - ✓ No duplicate messages
 - ✓ Correct deal formatting
 - ✓ WhatsApp messages delivered
 - ✓ Errors logged properly
 - ✓ Cron jobs working
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13. Tools Recommended (Optional)

- Postman (API testing)
 - MongoDB Compass / DB client
 - Browser DevTools
 - WhatsApp test group
 - Log viewer (PM2 / server logs)
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14. Final Notes for Testers

- Scraping behavior may change due to platform updates
- Always test with **dummy data first**
- Monitor WhatsApp rate limits
- Report flaky behavior immediately