

AstyUs

Group 11

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ArtyUs - A Smart Art & Craft Marketplace Platform

TEST PLAN Report

Overview

This documentation provides a complete overview of the **testing process, strategy, execution, and results** for the *ArtyUs* project.

It includes details of unit, integration, UI, and database tests along with full coverage and performance metrics.

Test Summary

Metric	Value
Total Tests Executed	63
Pass Rate	100%
Code Coverage	82%
Execution Time	8.3 seconds

Included Documentation Files

File	Description	When to Read
<u>TEST PLAN.md</u>	Defines the complete testing strategy and methodology including objectives, scope, environment setup, and frameworks (Jest, Supertest, React Testing Library).	When you need to understand the testing approach.
<u>TEST CASES.md</u>	Lists 50+ detailed test cases across backend, frontend, and database layers, including expected results.	When reviewing specific test logic or coverage.
<u>TEST RESULTS.md</u>	Displays all test results with pass/fail reports, performance metrics, and screenshots.	When validating outcomes or performance metrics.
<u>SEED DATA.md</u>	Explains database seeding with sample records, structure, and usage instructions.	When checking data consistency during tests.
<u>SUBMISSION SUMMARY.md</u>	Provides a concise overview of the entire project submission with structure, checklist, and highlights.	When reviewing the final submission package.

Quick Start Guide

◊ Run All Tests

```
# Backend Tests  
cd backend npm  
install npm test
```

```
# Frontend Tests  
cd frontend npm  
install npm test
```

◊ Seed Database

```
cd backend npm  
run seed
```

Test Results Summary

Component	Test s	Pas s	Fail	Coverage
Backend Unit Tests	28	28	0	85% Author: Krutarth
Backend Integration Tests	13	13	0	—
Frontend UI Tests	17	17	0	78%
Database Tests	5	5	0	—
TOTAL	63	63	0	82%

Test Credentials

Account Type	Email	Password
Primary User (Krutarth)	krutarth@gmail.com	Krut@123
Trader Account	contact@artisancrafts.com	Trader@1 23
Admin Account	admin@artyus.com	Admin@20 25

Test File Structure

Backend Tests

```
backend/src/tests/ ┌──  
unit/   ├──.usermodel.test.js  
   └── usercontroller.test.js  
   └── verifytoken.test.js  
└── integration/ └── api.test.js  
seed/   ├── seedDatabase.js  
   └── clearDatabase.js
```

Frontend Tests

```
frontend/src/tests/ ┌──  
SignUp.test.tsx  
└── SignIn.test.tsx
```

Features Tested

Backend

- User registration & authentication
- JWT token validation
- Password hashing with bcrypt
- Profile update operations
- Database CRUD validation

Frontend

- Component rendering and snapshot validation
- Form input validation
- Navigation and routing behavior
- User interaction (clicks, submit, redirects)

Database

- MySQL connection stability
- Data seeding and constraints verification
- CRUD functionality
- Foreign key and relational validation

Technologies Used

Category	Tools / Libraries
Testing Frameworks	Jest, Supertest, React Testing Library
Backend	Node.js, Express.js
Frontend	React.js, TypeScript
Database	MySQL
Security	bcrypt for password hashing

References & Help [GITHUB LINK](#)

- **Testing Strategy:** [TEST_PLAN.md](#)
- **Detailed Scenarios:** [TEST_CASES.md](#)
- **Execution Report:** [TEST_RESULTS.md](#)
- **Seed Data Details:** [SEED_DATA.md](#)
- **Submission Overview:** [SUBMISSION_SUMMARY.md](#)