

CRAFTING STABLE

Presented by:

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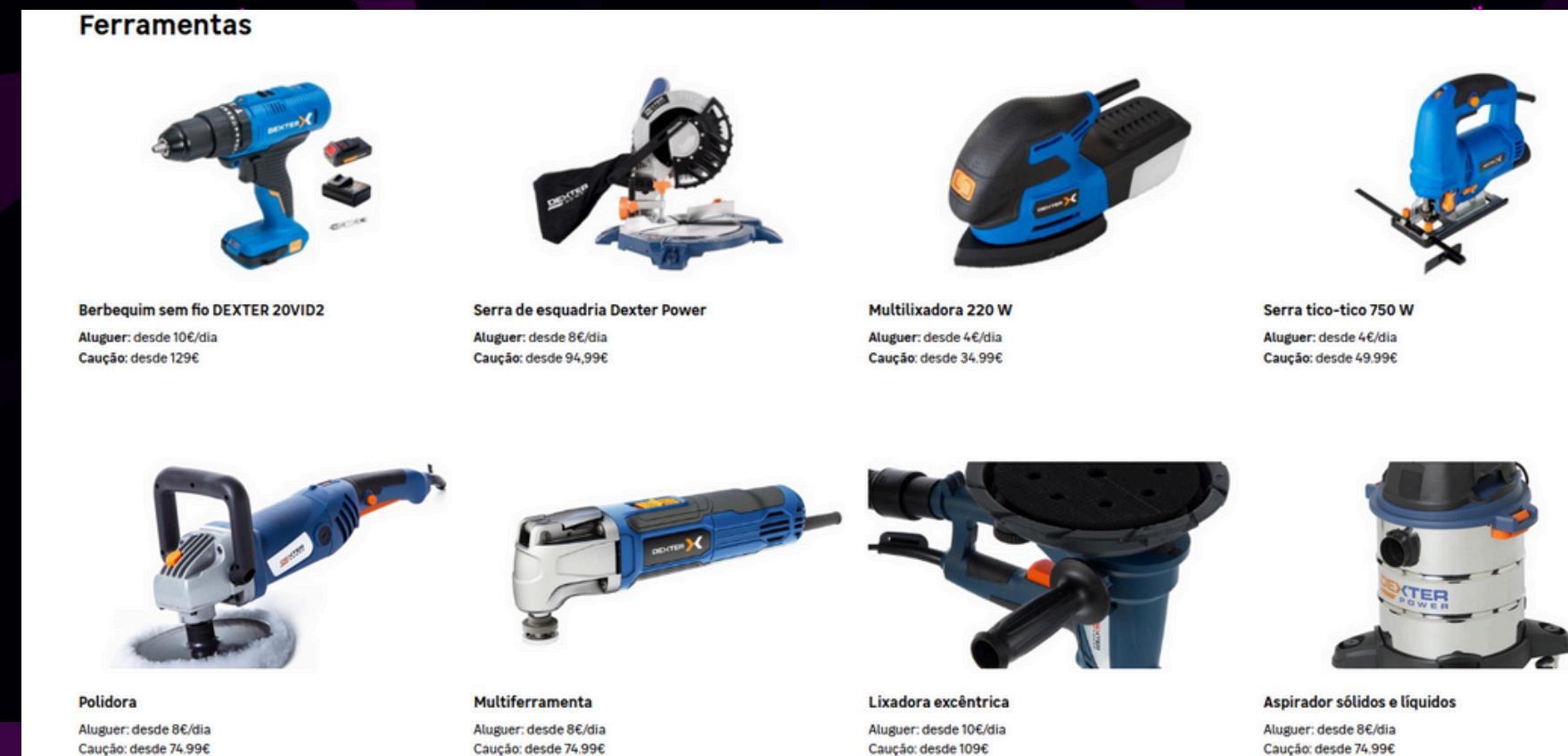
Product Concept

PROBLEM

- High cost of tool ownership with low usage frequency
- Underutilization of privately owned equipment
- Lack of a centralized tool-sharing platform
- Inefficient and informal rental processes
- Absence of real-time availability and scheduling
- Trust and safety issues in peer-to-peer rentals

SOLUTION

- Centralized peer-to-peer rental marketplace
- Structured digital catalog with availability management
- Reservation and scheduling with conflict prevention
- Secure and integrated payment system
- Reputation and rating mechanisms
- Scalable, modular, and extensible platform architecture



SCENARIOS

1. The owner lists a tool by defining availability, pricing, and item details.
2. A renter searches, compares options, and reserves a tool for a specific period.
3. The platform processes payment, confirms the rental, and collects post-rental reviews.

EPICS

1 – ITEM DISCOVERY & SEARCH

BROWSE AND FILTER TOOLS BY CATEGORY, LOCATION, AND PRICE.

2 – BOOKING & SCHEDULING

MANAGE RESERVATIONS AND PREVENT BOOKING CONFLICTS.

3 – PAYMENTS & TRANSACTIONS

HANDLE SECURE PAYMENTS, REFUNDS, AND PAYOUTS.

4 – USER PROFILES & REPUTATION

MAINTAIN USER HISTORY, RATINGS, AND REVIEWS.

5 – PLATFORM MANAGEMENT & ANALYTICS

MONITOR PLATFORM ACTIVITY, TRANSACTIONS, AND SYSTEM METRICS.

User Stories

[Back](#) [SCRUMDEMO-76](#) / [SCRUMDEMO-174](#) ^ ▼

As a renter, I want to pay securely through PayPal sandbox.

+ Concluído ✓ Concluído ⚡ ⌘ Improve História

Descrição
Add a description...

Subtasks
Add subtask

Linked work items
Add linked work item

Test Coverage


UNCOVERED
No Tests are associated with this issue.

Details

Responsável Gonçalo Calvo
[Assign to me](#)

Etiquetas None

Principal SCRUMDEMO-76 Payment with Paypal

Data limite None

Team None

Start date None

Versões de correção None

Sprint None

[Open with VS Code](#)

[Create branch](#)

[Create commit](#)

Criador Filipe Sousa

Software Architecture

FRONTEND

- React
- Vite
- Tailwind CSS

POSTGRESQL

- Persistante Data With Reservations and Chargers

BACKEND

- SpringBoot

NGINX

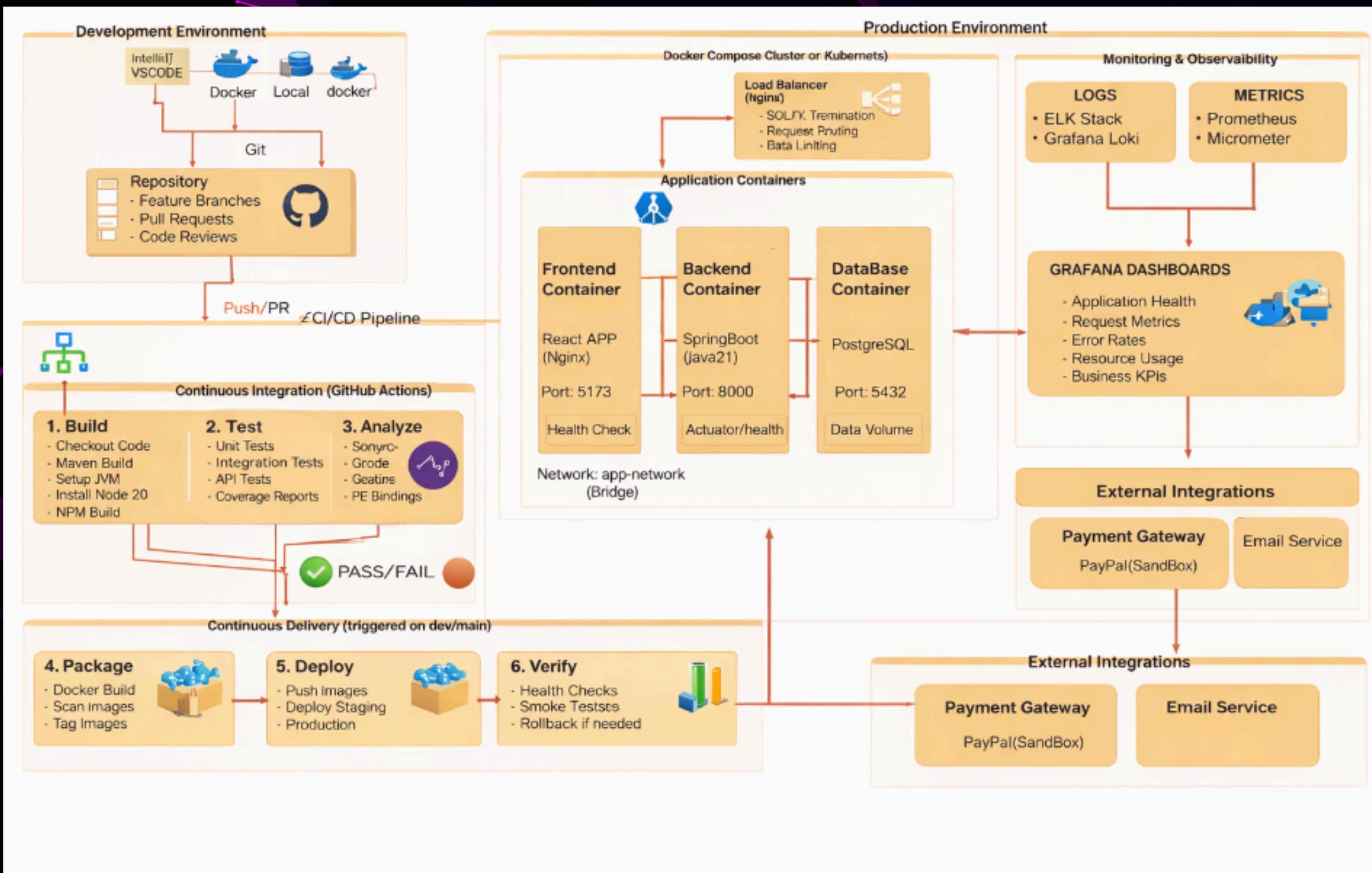
- Proxy to improve security on authentication

DOCKER

- All components containeraze

MONITOR

- Actuator=>Prometheus=>Grafana

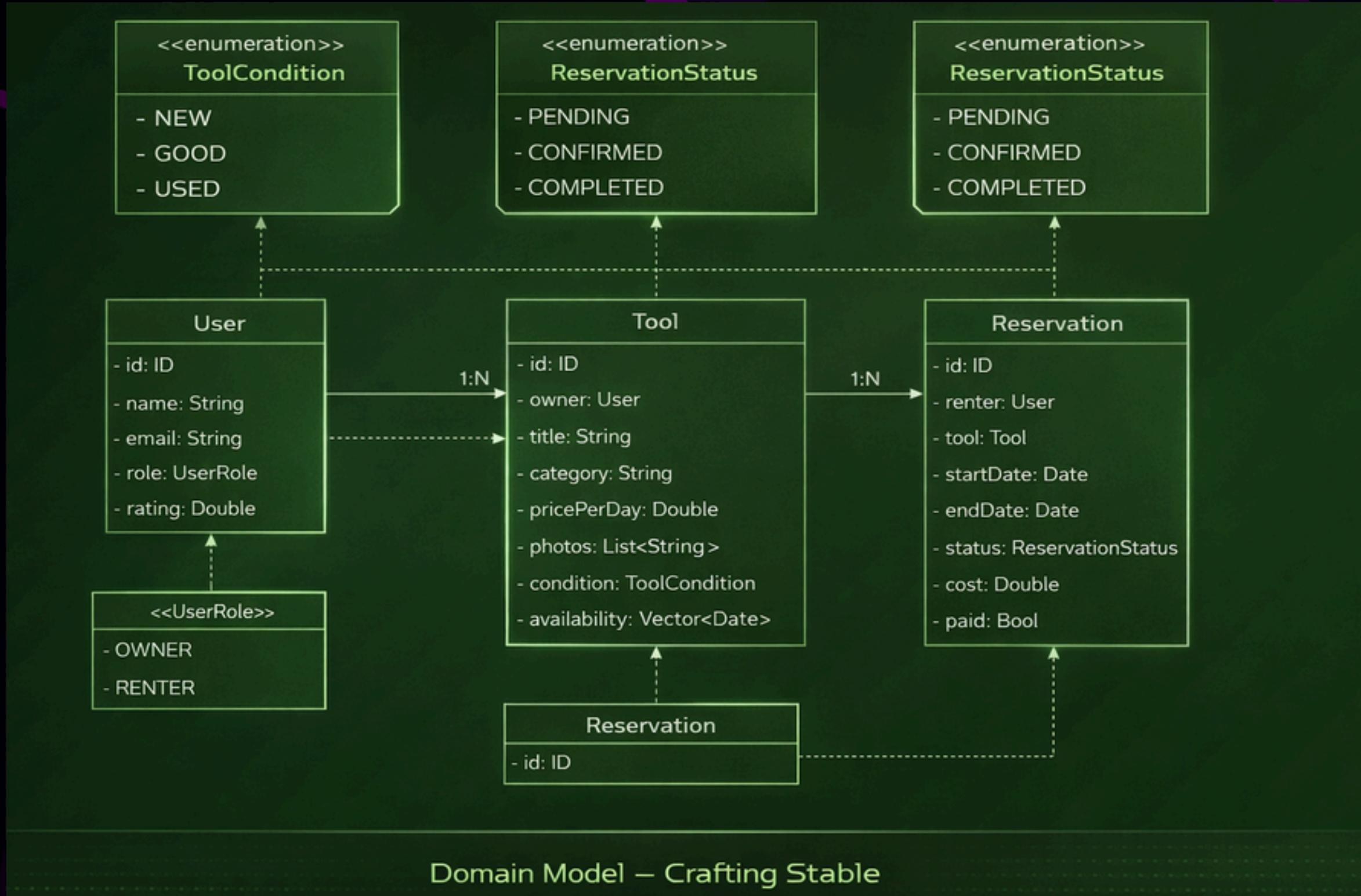


Domain Model

HOME

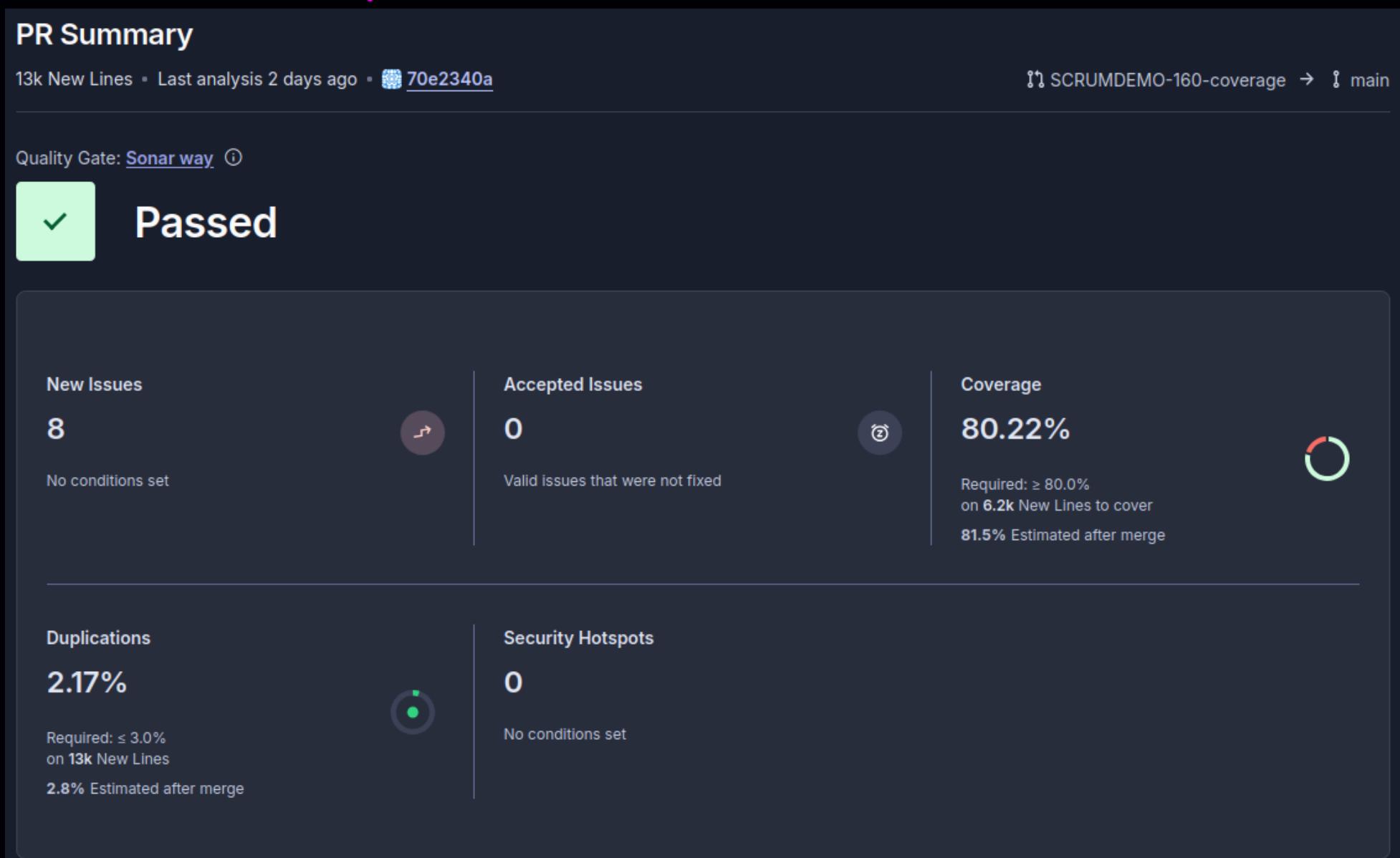
DISCUSSION

CONCLUSION



Code & Quality Management

SonarQube



Coding Style

- ESLint
 - JavaScript
 - TypeScript
- CheckStyle
 - Java
 - Google Style Guide

QA Stack

Automated Tests

- Unit Tests: Junit[Backend] >= 80% coverage]
- Integration: Testcontainers[PostGreSQL]
- E2E: Cucumber+Playwright[Frontend]

Traceability

- User Stories ==> Tests[Xray+Jira]
- Requirements Coverage: 100% MVP

Static Analysis

- SonaQube Quality Gate:
- Coverage >= 80%
- Duplication <= 3%

The screenshot shows a web-based application interface for managing test cases. At the top, there's a header with a back button, an 'Add epic' button, and a project identifier 'SCRUMDEMO-33'. Below the header, the main content area has a title 'Test platform management functionalities'. There are several sections: 'Descrição' with a descriptive text about verifying platform management features; 'Subtasks' with a placeholder 'Add subtask'; 'Linked work items' with a placeholder 'Add linked work item'; and 'Test Details'. Under 'Test Details', there are five tabs: 'Test details' (which is selected), 'Preconditions', 'Test Sets', 'Test Plans', and 'Test Runs'. A dropdown menu for 'Test Type' is open, showing options: 'Manual' (selected), 'Generic', and 'Cucumber'.

CI Pipeline



Code Review

Goncasgamer20 approved these changes 2 days ago

Goncasgamer20 merged commit `4afacee` into `main` 2 days ago
7 of 8 checks passed

This was referenced yesterday
[Scrumdemo 200 nginx #20](#)
[Scrumdemo 200 nginx #21](#)

Pull request successfully merged and closed
You're all set — the `SCRUMDEMO-160-coverage` branch can be safely deleted.

Add a comment

Write Preview

Add your comment here...

Scrumdemo 160 coverage #11

Merged Goncasgamer20 merged 91 commits into `main` from `SCRUMDEMO-160-coverage` 2 days ago

Conversation 2 Commits 91 Checks 7 Files changed 298

FilipePinaSousa commented 2 days ago • edited by coderabbitai bot

This Pull Request aims to address pending code coverage issues and enhance the project's quality met SonarQube, ensuring that new or modified code meets the minimum threshold defined in the Quality Quality Improvements (SonarQube Impact)

This change directly impacts the following SonarQube metrics:

Increased Coverage: Introduces new unit and/or integration tests to cover previously untested code bl Line Coverage and Branch Coverage percentages.

Quality Gate Approval: Ensures the project passes the Quality Gate check by resolving issues related to coverage on new code (if applicable).

False Positive Suppression: (If applicable) Includes the suppression of false positives (such as the detected in non-credential UI strings) using `// NOSONAR` to focus analysis only on genuine vulnerabilities.

Functional Tests

```

52    @Given("the application is running")
53    public void applicationIsRunning() {
54        assertNotNull(restTemplate, message: "TestRestTemplate should be initialized");
55        assertNotNull(userRepository, message: "UserRepository should be initialized");
56    }
57
58
59    @And("the database is clean")
60    public void databaseIsClean() {
61        userRepository.deleteAll();
62    }
63
64    @Given("a user exists with email {string} and password {string}")
65    public void userExists(String email, String password) {
66        User user = TestDataFactory.createUser(email, password, UserRole.CUSTOMER);
67        userRepository.save(user);
68        sharedState.lastCreatedUser = user;
69    }
70
71    @When("the user logs in with email {string} and password {string}")
72    public void userLogsIn(String email, String password) {
73        AuthRequestDTO request = new AuthRequestDTO();
74        request.setEmail(email);
75        request.setPassword(password);
76
77        sharedState.latestResponse = restTemplate.exchange(
78            baseUrl + "/api/auth/login",
79            org.springframework.http.HttpMethod.POST,
80            new HttpEntity<>(request, sharedState.headers),
81            String.class
82        );
83    }
84
85    @Then("the login should be successful")
86    public void loginSuccessful() {
87        assertTrue(sharedState.latestResponse.getStatusCode().is2xxSuccessful(),
88            "Login response should be 2xx, got: " + sharedState.latestResponse.getStatusCode());
89        assertNotNull(sharedState.latestResponse.getBody());
90    }
91
92    @Then("the login response status is {int}")
93    public void loginResponseStatusIs(int expectedStatus) {
94        assertEquals(expectedStatus, sharedState.latestResponse.getStatusCode().value());
95    }

```

```

1  Feature: Authentication and User Management
2  As a user
3      I want to authenticate and manage my account
4      So that I can access the application securely
5
6  Background:
7      Given the application is running
8      And the database is clean
9
10 Scenario: User login with valid credentials
11     Given a user exists with email "user@example.com" and password "password123"
12     When the user logs in with email "user@example.com" and password "password123"
13     Then the login response status is 200
14     And the response contains a valid JWT token
15
16 Scenario: User login with invalid credentials
17     Given a user exists with email "user@example.com" and password "password123"
18     When the user logs in with email "user@example.com" and password "wrongpassword"
19     Then the login response status is 401
20
21 Scenario: User login with non-existent email
22     When the user logs in with email "nonexistent@example.com" and password "password123"
23     Then the login response status is 401
24
25 Scenario: User registration with valid credentials
26     When the user registers with email "newuser@example.com" password "password123" and role "CUSTOMER"
27     Then the registration response status is 201
28     And the user is created in the system with email "newuser@example.com"
29
30 Scenario: User registration with existing email
31     Given a user exists with email "user@example.com" and password "password123"
32     When the user registers with email "user@example.com" password "password123" and role "CUSTOMER"
33     Then the registration response status is 400
34
35 Scenario: Get authenticated user details
36     Given a user exists with email "user@example.com" and password "password123"
37     And the user is logged in with email "user@example.com"
38     When the user requests their own details
39     Then the response status is 200
40     And the response contains the user email "user@example.com"
41
42 Scenario: Access protected endpoint without authentication
43     When an unauthenticated request is made to GET "/api/users"
44     Then the response status is 403
45

```

Unit & Integration Tests

Integration Tests

```

@Test
void quandoLoginValido_retornaTokenE200() throws Exception {
    String token = "token-abc-123";

    UserDetails user = new org.springframework.security.core.userdetails.User(
        "test@example.com",
        "password",
        List.of(new SimpleGrantedAuthority("ROLE_USER"))
    );

    when(authManager.authenticate(any(type: UsernamePasswordAuthenticationToken.class)))
        .thenReturn(new UsernamePasswordAuthenticationToken(user.getUsername(), user.getPassword(), user.getAuthorities()));

    when(userDetailsService.loadUserByUsername(eq(value: "test@example.com"))).thenReturn(user);
    when(jwtUtil.generateToken(eq(value: "test@example.com"), anyString())).thenReturn(token);
    when(userDetailsService.getUserId(any(type: UserDetails.class))).thenReturn(value: 1L);
    when(userDetailsService.getUserName(any(type: UserDetails.class))).thenReturn(value: "Test User");

    Map<String, String> payload = Map.of(
        "email", "test@example.com",
        "password", "password"
    );

    mvc.perform(post("/api/auth/login")
        .contentType(MediaType.APPLICATION_JSON)
        .content(mapper.writeValueAsString(payload)))
        .andExpect(status().isOk())
        .andExpect(content().contentTypeCompatibleWith(MediaType.APPLICATION_JSON))
        .andExpect(jsonPath("$.token").value(token));
}

```

```

@WebMvcTest(AuthController.class)
@AutoConfigureMockMvc(addFilters = false)
public class AuthControllerTest {

    @Autowired
    private MockMvc mvc;

    @Autowired
    private AuthenticationManager authManager;

    @Autowired
    private UserDetailsService userDetailsService;

    @Autowired
    private JwtUtil jwtUtil;

    private final ObjectMapper mapper = new ObjectMapper();
}

```

Unit Tests

```

@Test
void whenValidUsername_thenUserShouldBeFound() {
    User user = new User();
    user.setEmail(email: "test@user.com");
    user.setPassword(password: "password");
    user.setType(UserRole.CUSTOMER);

    when(userRepository.findByEmail(username: "test@user.com")).thenReturn(Optional.of(user));

    UserDetails userDetails = userDetailsService.loadUserByUsername(username: "test@user.com");
    assertEquals(expected: "test@user.com", userDetails.getUsername());
    assertTrue(userDetails.getAuthorities().stream().anyMatch(a -> a.getAuthority().equals("ROLE_CUSTOMER")));
}

```

```

@ExtendWith(MockitoExtension.class)
class UserDetailsServiceTest {

    @Mock
    private UserRepository userRepository;

    @Mock
    private PasswordEncoder passwordEncoder;

    @InjectMocks
    private UserDetailsService userDetailsService;
}

```

```

@Test
void whenInvalidUsername_thenThrowUsernameNotFoundException() {
    when(userRepository.findByEmail(username: "nonexistent@user.com")).thenReturn(Optional.empty());

    assertThrows(expectedType: UsernameNotFoundException.class, () -> {
        userDetailsService.loadUserByUsername(username: "nonexistent@user.com");
    });
}

```

Product tour - DEMO

PMI Board

Plus	Minus	Interesting
Almost 90% code coverage	Started treating tests at the middle of development	Leading with data coming from external API's to take the most advantage of them
Robust CI/CD pipelines	Cannot book external [from maps API] charger slots	Sonarqube integrated in the pipeline
Good workflow and communication within the team	Selenium Testing (used Playwright instead)	Integration of Xray with Jira and communicate with the team "without communicating"

THANK YOU!!

Questions?

<https://github.com/Crafting-Stable/CraftingStable>