STORE APPLICATION

PROJECT

2024

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Introduction

This presentation will delve into the journey of creating a dynamic and immersive shopping experience, where users can seamlessly browse through a diverse range of products, make purchases, and interact with the platform's features. By harnessing the power of JavaFX for frontend development and MongoDB for backend data management, our project endeavors to redefine the standards of online retailing.

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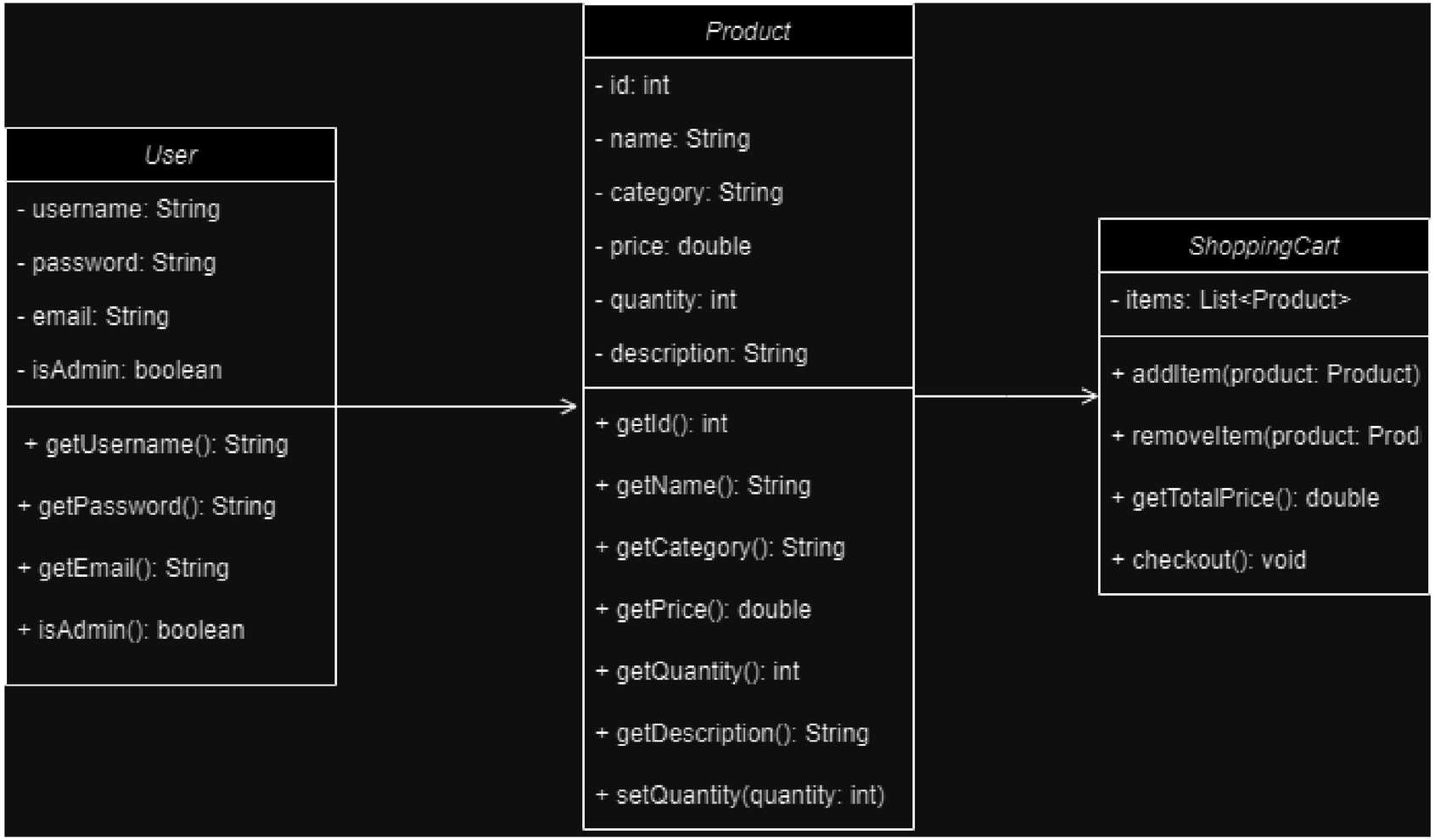
Technology Stack

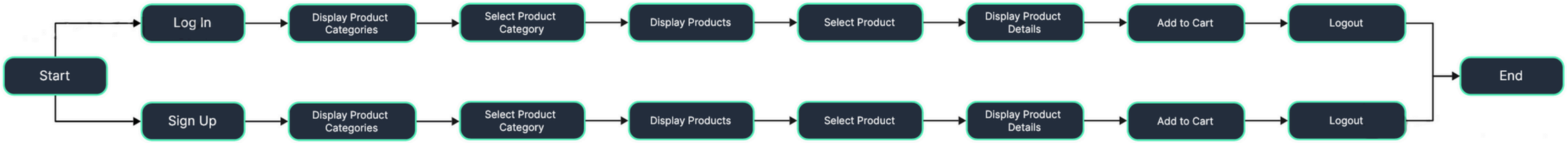
JavaFX serves as the cornerstone of our frontend development, providing a powerful toolkit for building interactive and visually appealing user interfaces.

MongoDB serves as our backend database solution, offering a flexible and scalable database platform. By storing our product data in MongoDB, we can easily manage large volumes of structured and unstructured data, while also benefiting from features such as document-based storage, dynamic schema flexibility, and horizontal scalability.

UML Diagram


User
- username: String
- password: String
- email: String
- isAdmin: boolean
+ getUsername(): String
+ getPassword(): String
+ getEmail(): String
+ isAdmin(): boolean
Product
- id: int
- name: String
- category: String
- price: double
- quantity: int
- description: String
+ getId(): int
+ getName(): String
+ getCategory(): String
+ getPrice(): double
+ getQuantity(): int
+ getDescription(): String
+ setQuantity(quantity: int)
ShoppingCart
- items: List<Product>
+ addItem(product: Product)
+ removeItem(product: Prod
+ getTotalPrice(): double
+ checkout(): void

Flowchart


Start
Log In
Display Product Categories
Select Product Category
Display Products
Select Product
Display Product Details
Add to Cart
Logout
Sign Up
Display Product Categories
Select Product Category
Display Products
Select Product
Display Product Details
Add to Cart
Logout
End

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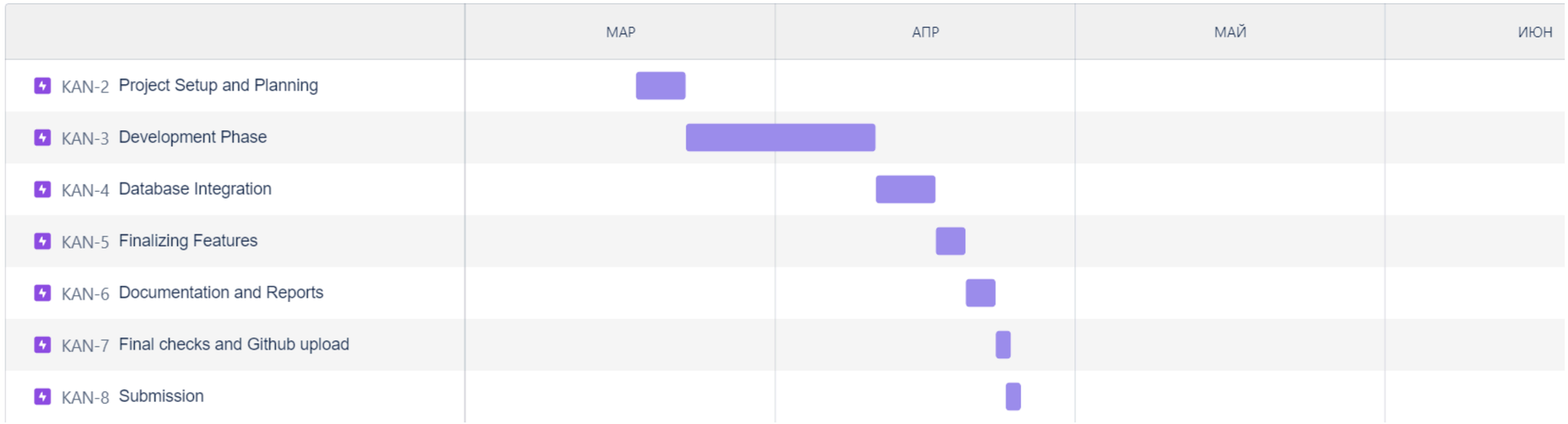
Jira Planning



Thank you