Full Stack eCommerce Documentation

Project documentation and task assignment for the Fullstack group consisting of

Eyob Gebrekidan, Luke Kirwan, Moses-Ailemen David Ibukunoluwa and Tanatswa Ben Musemburi

Weekly Allocations

\*At the time this document was created some parts of the project were already preestablished:

|  |  |
| --- | --- |
| Name | Task |
| Ben | Constructing the base skeleton of the project (Components: addInstrument, instrument, MainPage, Navbar, Products); Server-side mongo set up (tbc) |
| David | Constructing the base skeleton of the project (Components: Login, Register); Forms for the login and register |
| Eyob | Constructing the base skeleton of the project (Component: basket); Linking between the login and user icon |
| Luke | Constructing the base skeleton of the project (admin dashboard (tbc)) |

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| **Name** | **Task** | **DOT** |
| Luke | Selecter for the login page | ???? |
| Luke | CSS for the login page | 31/01/25 7:30 pm |
| Luke | Changed the Navbar and done the CSS for it | 31/01/25 8:45 pm |

Schedule and Progress following establishment of this document:

Rough task allocation. Subject to change

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| --- | --- | --- |
| **Task** | **Assigned To** | **Done (✅/⏳)** |
| **Frontend Development 1** | **(UI & Components)** |  |
| Create Product List component | Ben |  |
| Create Product Details component | Ben |  |
| Implement search, filtering & sorting | Ben |  |
| Create Shopping Cart UI | Eyob |  |
|  |  |  |
| **Frontend Development 2** | **(Admin Dashboard & Forms)** |  |
| Develop Admin Dashboard UI | Luke |  |
| Implement Add to Cart functionality | Eyob |  |
| Develop Order Checkout page | Eyob |  |
| Implement client-side form validation | David |  |
|  |  |  |
| **Backend Development 1** | **(Database & Authentication)** |  |
| Create MongoDB database & models (User, Product, Order) | Ben |  |
| Define RESTful API endpoints for products | Luke |  |
| Define RESTful API endpoints for users & orders | Eyob |  |
| Implement user authentication (Login, Register) | David |  |
| Implement role-based access control (Admin, Customer) | Luke |  |
| Implement JSON Web Tokens (JWT) authentication | David |  |
|  |  |  |
| **Backend Development 2** | **(Business Logic & Security)** |  |
| Implement product CRUD operations in backend | Ben |  |
| Implement MongoDB document validation | David |  |
| Integrate Stripe/PayPal for payments | Eyob |  |
| Store order details in MongoDB | Luke |  |
| Implement Express error handling middleware | David |  |
| Test all CRUD operations for products & orders | Luke |  |
| CSS | Luke |  |

Week 1 (Feb 1 - Feb 7)

Ben

Main task: Display and add instruments

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| **Actions** | **DOT** |
| Instruments display, can be deleted, their stock can be reduced | 08/02/2025 18:41 |
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David

Main task: Implement client-side form validation

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| **Actions** | **DOT** |
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Eyob

Main task: Create Shopping Cart UI

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| **Actions** | **DOT** |
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Luke

Main task: Develop Admin Dashboard UI

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| **Actions** | **DOT** |
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