| **Sprint Cycle** | **My Key PBIs** | **Sprint Theme** | **Corresponding Group Sprint Phase** |
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| **Sprint 1** | 1. Design users database schema and entity.  2. Set up project structure for Authentication module.  3. Implement initial User Registration API (core fields).  4. Implement password hashing (hash + salt). | Establishing User Identity Foundations & Basic Registration | Initial Design and Setup |
| **Sprint 2** | 1. Implement User Login API.  2. Implement basic session management.  3. Add email verification (OTP(Once Time Password) send & verify) to registration.  4. Design API for fetching user profile data. | Enabling Secure Login & Initial Profile Access with Email Verification | Foundational Backend Structures |
| **Sprint 3** | 1. Implement Update Password functionality. 2. Add a time limit for requesting to send an Email. 3. Implement Update Email Address functionality. 4. Design and implement core AOP authorization aspect ( @AuthCheck). 5. Apply AOP to critical user-specific APIs. 6. Apply AOP authentication to other team member’s endpoints 7. Document the interfaces I have implemented. | Enhancing Profile Management & Introducing API Authorization | Core Logic Implementation & API Integration |
| **Sprint 4** | 1. Conduct unit and integration testing for all module features. 2. Refine error handling and API responses. 3. verify AOP authorization in team members' endpoints. 4. Complete the documentation on Authentication APIs. | Module Hardening, Comprehensive Testing & Broader Authorization Integration | Deployment & Comprehensive Testing |