

## 1 CAT Scheduler

### 1.1 Documents

- 1.1.1 Requirement Specifications
- 1.1.2 Design
- 1.1.3 Work Breakdown Structure
- 1.1.4 Project Schedule
- 1.1.5 Risk Assessment
- 1.1.6 Midterm Presentation
- 1.1.7 Final Presentation
- 1.1.8 Founder Delivery

### 1.2 Database

#### 1.2.1 Schema

##### 1.2.1.1 Design

- 1.2.1.1.1 Determine what information is necessary to store in the database
- 1.2.1.1.2 Decide on naming convention
- 1.2.1.1.3 Determine tables with primary and foreign keys
- 1.2.1.1.4 Build entity relationship diagram
- 1.2.1.1.5 Normalize tables and refine schema
- 1.2.1.1.6 Update entity relationship diagram

##### 1.2.1.2 Implement

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- 1.2.2.1.1 Determine functionality needed for minimum viable product

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### 1.3 Administrative Interface

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- 1.3.1.1.1 Determine Interface Components

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- 1.3.1.1.2.1 Set Student Day/Time for Block

- 1.3.1.1.2.2 Add Student

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- 1.3.1.2.1.2 Get Student Information
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- 1.5 Testing
  - 1.5.1 Administrative Interface

- 1.5.1.1 Test Admin View
  - 1.5.1.1.1 Ensure administrative and client information agree
  - 1.5.1.1.2 Verify buttons are linked to features properly
- 1.5.1.2 Test Admin Controller
  - 1.5.1.2.1 Unit Testing
- 1.5.1.3 Test Admin View/Controller Integration
  - 1.5.1.3.1 Verify buttons execute proper control units
  - 1.5.1.3.2 Verify controller actions modify user view appropriately
  - 1.5.1.3.3 Simulate typical admin use case without error
- 1.5.2 Database
  - 1.5.2.1 Schema
    - 1.5.2.1.1 Confirm normalized schema has same semantical meaning as original
    - 1.5.2.1.2 Visually determine that created schema matches normalized schema
    - 1.5.2.1.3 Check tables to ensure proper foreign key constraints
  - 1.5.2.2 Scripts
- 1.5.3 User Interface
  - 1.5.3.1 Test View Portion
    - 1.5.3.1.1 Verify Buttons Respond with appropriate function within time limit
  - 1.5.3.2 Test Controller
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      - 1.5.3.2.1.1 User Controls for Pages and Scripts
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        - 1.5.3.2.1.1.8 Information Retrieval from Database
  - 1.5.3.3 Test Integration between View and Controller
    - 1.5.3.3.1 Ensure buttons execute proper controls
    - 1.5.3.3.2 Ensure actions from controls generate appropriate change in user view
    - 1.5.3.3.3 Execute typical use case