**Zain Allaudin (23L-3036) BSE-2A**

***Personal Finance Tracker***

***Work Breakdown Structure (WBS)***

**Project Initiation**

1.1 **Define Project Scope**

* Identify project objectives
* Determine project deliverables
* Establish project boundaries

1.2 **Create Project Plan**

* Develop a detailed project schedule
* Define communication strategies

1.3 **Setup Project Team**

* Assign roles and responsibilities
* Organize team-building activities
* Schedule regular team meetings

**Project Documentation**

2.1 **Project Proposal**

* 2.1.1 **Research and Outline**
  + Define the target audience
* 2.1.2 **Write Proposal**
  + Draft proposal sections
  + Incorporate visual aids
* 2.1.3 **Review and Finalize**
  + Peer review for feedback
  + Edit based on comments

2.2 **Software Requirements Specification (SRS) Document**

* 2.2.1 **Gather Requirements**
  + Seek necessary requirements
* 2.2.2 **Document Requirements**
  + Use standardized templates
  + Include use cases and scenarios
* 2.2.3 **Review and Finalize**
  + Obtain formal approval

**Design Phase**

3.1 **User Interface Design**

* 3.1.1 **Wireframe Design**
  + Create low-fidelity prototypes
  + Test with potential users
* 3.1.2 **UI Mockup Design**
  + Develop high-fidelity mockups
* 3.1.3 **UI Review and Finalization**
  + Conduct usability testing
  + Iterate based on feedback

3.2 **Database Design**

* 3.2.1 **Schema Design**
  + Model data relationships
  + Optimize for performance
* 3.2.2 **Database Implementation**
  + Build database structure
  + Populate with sample data
* 3.2.3 **Database Testing**
  + Perform stress testing
  + Ensure data integrity

**Implementation and Testing**

4.1 **Backend Development**

* 4.1.1 **Authentication System**
  + Test for security vulnerabilities
* 4.1.2 **Income and Expense Tracking**
  + Integrate financial APIs
  + Provide customizable reports
* 4.1.3 **Currency Conversion**
  + Support multiple currencies
  + Update exchange rates in real-time
* 4.1.4 **Budget Calculation**
  + Develop budget forecasting models
  + Include alerts for budget anomalies
* 4.1.5 **Data Security Implementation**
  + Encrypt sensitive data
  + Conduct regular security audits

4.2 **Integration**

* 4.2.1 **UI Integration with Backend**
  + Ensure responsive design
  + Optimize for cross-platform compatibility
* 4.2.2 **Database Integration**
  + Implement data caching strategies
  + Set up database replication
* 4.2.3 **Testing Integration**
  + Develop automated test suites
  + Perform continuous integration testing

**Project Presentation**

5.1 **Presentation Content Creation**

* Design engaging slides
* Include project demos

5.2 **Rehearsals and Feedback Incorporation**

* Conduct dry runs with team
* Refine presentation based on critiques

**Project Finalization**

7.1 **Final Testing and Bug Fixing**

* Prioritize critical bugs
* Implement user acceptance testing

7.2 **Documentation Updates**

* Finalize user manuals
* Update technical documentation

7.3 **Project Closure**

* Conduct post-project review
* Archive project documents

Link for Gantt Chart (Jira)

https://zainallaudin577.atlassian.net/plugins/servlet/ac/jp.ricksoft.plugins.wbsgantt-for-jira/main?ac.filter=GANTT\_-10000