TASK 5.1P

For my *Income-Expense Tracker,* I am using the SCRUM framework for project management.

The Scrum framework will be used to efficiently create and deliver the Income and Expense Tracker application. Scrum, an Agile methodology, is ideal for this project because it ensures high levels of collaboration, adaptability, and iterative development. The strategy will prioritize time-boxed sprints, defined roles, continuous feedback, and incremental delivery to effectively meet user needs.

1. **Project Vision:**
   The project aims to create a comprehensive income and cost tracker that will help users forecast their monthly expenses, track their spending, and save more money by utilizing machine learning algorithms. This app will provide users with more planning tools and simplify personal financial management.

2. **Scrum Team Roles:**
   - Product Owner:
     - Acts as the primary stakeholder, defining the product's objectives, characteristics, and vision.
     - Provides user stories and ensures that they align with user requirements and business goals.
   - Scrum Master:
     - Facilitates the Scrum process and eliminates obstacles to enable the team to remain focused on creating value.
     - Performs Scrum tasks like Sprint Planning, Retrospective, Sprint Review, and Daily Scrum.
   - Development Team:
     - Comprises employees from several departments, including front-end and back-end developers, UI/UX designers, and data scientists.
     - Responsible for delivering functional increments for the application.

3. **Sprint Structure:**
Throughout the project's two two-week sprints, the following noteworthy events will occur:
- Sprint Planning (Day 1 of each sprint):
  The team selects tasks from the Product Backlog and sets a clear Sprint Goal.
- Review of the Sprint (Sprint End):
  After presenting the final product, the group asks stakeholders for their opinions.
- Sprint Retrospective:
  The team assesses what went well and revises for the next sprint.

4. **Sprint Breakdown**
- Sprint 1: Core Functionality Development
  - Sprint Goal: Build the foundation for income and expense tracking with basic input, visualization, and data storage.
  - Tasks:
    - User authentication (sign-up and login).
    - Input income and expense data (with category tagging).
    - Display financial data (e.g., list view and pie charts).
    - Database setup for secure data storage.
    - Initial UI design (clean and intuitive interface).
  - Outcome: Users can log in, input expenses, and visualize their spending.
- Sprint 2: Advanced Features and ML Integration
  - Sprint Goal: Add advanced features, refine the UI, and implement the machine learning model for expense prediction.
  - Tasks:
    - Implement export/download options for monthly financial summaries.
    - Develop and integrate a basic ML model to predict next month's expenses (e.g., groceries, bills, mortgage).

- o Optimize application performance and improve data visualization.
- o User testing and bug fixes based on feedback.
  - Outcome: Users can track spending, predict next month's expenses, and export their financial summaries.

5. **Progress Tracking:**
   - Tools like Trello will visualize the workflow for both sprints, tracking tasks as "To Do," "In Progress," or "Done."
   - Sprint Goals: Each sprint delivers a working increment of the application, ensuring progress is measurable and tangible.

6. **Continuous Feedback and Adaptation:**
   Input will be gathered during Sprint Reviews to ensure that the program meets user needs. The Product Backlog will be updated with any changes or enhancements for either immediate or future action.