

Date	30/10/2025
Time id	NM2025TMID05890
Project name	Calculating Family Expenses using Service Now
Maximum mark	5 marks

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story Points)

Project Planning Template: Calculating Family Expenses

1. Product Backlog

S.No	Feature / Task	Description	Priority	Status
1	User Registration & Login	Allow users to create an account and securely log in.	High	Pending
2	Add Monthly Income	Feature for users to input total monthly income.	High	Pending
3	Add Expense Categories	Users can define expense categories (e.g., Food, Rent, Bills, Savings).	High	Pending
4	Record Expenses	Allow users to enter daily/weekly expenses with date and category.	High	Pending
5	View Expense Summary	Display expense breakdown in table and pie chart format.	Medium	Pending

S.No	Feature / Task	Description	Priority	Status
6	Budget Limit & Alerts	Notify users when a category exceeds its monthly budget limit.	Medium	Pending
7	Generate Reports	Provide downloadable expense reports (PDF/Excel).	Medium	Pending
8	Data Backup & Restore	Allow users to back up and restore expense data.	Low	Pending
9	Multi-User Family Access	Enable multiple family members to contribute to shared expenses.	Low	Pending

2. Sprint Planning

Sprint No	Duration	Goals / Deliverables	Planned Stories	Estimated Velocity
Sprint 1	2 weeks	Set up authentication and income input module.	User Login, Add Income	25 points
Sprint 2	2 weeks	Expense entry and category management.	Expense Categories, Add Expense	30 points

Sprint No	Duration	Goals / Deliverables	Planned Stories	Estimated Velocity
Sprint 3	2 weeks	Budget tracking and notifications.	Budget Limit, Alerts	25 points
Sprint 4	2 weeks	Reports and analytics dashboard.	Reports, Summary Graphs	35 points
Sprint 5	1 week	Final testing, backup, and deployment.	Backup, Multi-user feature	20 points

3. User Stories

Story ID	User Story	Acceptance Criteria	Story Points
US1	As a user, I want to log in securely so that my data is protected.	Login must validate credentials and store tokens securely.	8
US2	As a user, I want to add my income to track available funds.	Income should be editable and persist after 5 refresh.	8
US3	As a user, I want to categorize my expenses to understand spending patterns.	Category creation and edit options must be available.	8

Story ID	User Story	Acceptance Criteria	Story Points
US4	As a user, I want to visualize my expenses in charts to track spending.	Chart updates dynamically with new data.	13
US5	As a user, I want to receive alerts when I overspend.	Alerts triggered when spending > budget limit.	10
US6	As a family admin, I want to generate monthly reports.	Reports must summarize income, expenses, and savings.	13

4. Story Points & Velocity Chart

	Total Story Sprint Points	Completed	Velocity (Points/Sprint)	Notes
	Planned			
1	25	20	20	Login & income features completed.
2	30	27	27	Expense and category module stable.
3	25	23	23	Budget alerts tested.

	Total Story Points	Completed	Velocity (Points/Sprint)	Notes
Sprint	Planned			
4	35	30	30	Dashboard and reports done.
5	20	18	18	Deployment phase.

Average Velocity: 23.6 points per sprint

5. Tools & Methodology

- Methodology: Agile Scrum
- Tools: Jira / Trello / ClickUp
- Team Roles:
 - Product Owner – Defines backlog & priorities
 - Scrum Master – Facilitates sprint planning and reviews
 - Developers – Implement features
 - Testers – Ensure functionality meets acceptance criteria

Velocity

$$\text{Average Velocity} = \frac{20 + 27 + 23 + 30 + 18}{5} \\ = 23.6 \text{ story points per sprint}$$

Burndown Chart:

The **Burndown Chart** tracks remaining story points over sprint days, showing team progress. It helps ensure timely completion of the *Calculating Family Expenses* project tasks.