IT314 – Software Engineering

Coinscious- Smart Expense Tracker and Splitter

Minutes of Meetings

Group 28

1. Tirth Kaushal Gandhi - 202301413
2. Aum Patel - 202301448
3. Pratik Chauhan - 202301435
4. Darshit Ramani - 202301404
5. Ashka Pathak - 202301270
6. Tanishkumar Patel - 202301411
7. Ruchir Joshi - 202301410
8. Kirtan Chauhan - 202301409
9. Rujal Jiyani - 202301277

10. Karthik raman Balamurugan – 202301407

Meeting – 1

Date: 12th August, 2025

Agenda:

- Brainstorming and discussion of potential project topics
- Review of the project requirements
- Selection of the project topic
- Selection of the group representative

Participants: All

What we have discussed in the meeting:

- Discuss potential project topics
- Sorted/ Selected specific topics for projects
- We took the opinions of all the members about which project they preferred, and in the end, we selected a group representative.

Conclusion:

Decided top 3 projects and elected group representative

Meeting – 2

Date: 23rd August, 2025

Agenda:

- To complete the lab assignment, we have to create a project concept poster.
- Prepare a design, and discuss how to properly plan and organize the sprints.

Participants: All

What we have discussed in the meeting:

- Discussion on the lab assignment in which we have to create a concept poster
- Discussion on functionalities that should be added to our system
- Discussion about the sprints, a rough idea about how we can appropriately make our system.

Conclusion:

We did some rough brainstorming to get an idea of how we can create the concept poster.

Meeting – 3

Date: 24th August, 2025

Agenda:

- To complete the lab assignment, we have to create a project concept poster.

Participants: All

What we have discussed in the meeting:

- Decide functional requirements and non-functional requirements for our project.
- Rough Brainstorming about sprints to get the proper idea of what we precisely have to do in our project, and discussed the Modules in which we should build our project.
- Made concept posters for lab submission.

Meeting – 4

Date: 8th September, 2025

Agenda:

- Discussion on whether to go ahead with a webpage, app or PWA.
- Check the feasibility of PWA as a midway solution.

Participants: All

What we have discussed in the meeting:

- We talked about whether we should stick to making a webpage or shift to making a full app.
- The idea of Progressive Web App (PWA) came up since it works as a website but also can be installed on phones like an app. That way we don't need to build a separate version for iOS and Android.
- A point was raised about our own learning curve since no one is fully comfortable yet, and we also need to keep in mind the timespan of this project.

Conclusion:

The group decided to go ahead with the Progressive Web App (PWA) approach since it balances the benefits of both a website and a mobile app. For now, the frontend will be narrowed to either React.js, Next.js or Flutter after trying a prototype, the backend will likely be in Python, and development will be done as a PWA so it can be accessed both in the browser and installed like an app.

Meeting – 5

Date: 11th September, 2025

Agenda:

- Finalising design elements and UI/UX requirements
- Distribution of frontend and backend tasks.

Participants: All

What we have discussed in the meeting:

- Take opinions of all members about the technologies they have researched and which we can use in our project.
- Discuss the distribution of the frontend and backend tasks (not final; frontend and backend members may also contribute to other tasks) and decide who will handle the ai integration
- Front end features:

- Add, remove, edit, and categorize expense
- Visualisation features (graphs, charts, dashboards)
- Requirement of toggle button to switch between personal and split expenses.
- Dark mode and light mode options
- Colour coding for progress tracker
- Inclusions of AI-powered insights and the Account section in the design scope

Conclusion:

Tools and technologies:

Frontend – UI framework with dark/light mode support, visualisation library (Typescript, React)

Backend – Expense data management, category storage, AI module integration

Meeting – 6

Date: 13th September, 2025

Agenda:

- Discussion on suitable dashboard templates for the smart expense tracker and splitter

Participants: Frontend Team

What we have discussed in the meeting:

- Reviewed different templates in Figma and took inspiration from existing projects to decide what type of dashboards can be created

Conclusion:

Decided on one or two templates, but will continue exploring and also try creating our own or just improve the templates with our own ideas.

Meeting – 7

Date: 15th September, 2025

Agenda:

- Work on elicitation techniques with Google Form.
- Backend progress on AI categorisation.
- UI and UX design decisions for the dashboard and login page.

Participants: All

What we have discussed in the meeting:

- For elicitation, the group went back and forth on which questions should be kept in the Google Form and which should not. Alongside the form we also considered other elicitation techniques like analysis of existing systems, use cases, and brainstorming so that the requirements are not just based on survey responses.
- On the design side a draft dashboard was made on Figma with graphs and dark and light mode. We decided the placement of the toggle button to switch between personal and split expenses. We also discussed where to place the login and logout buttons, the settings page, different buttons, the overall colour scheme, and the login page design.
- On the backend, temporary prototypes of AI categorisation were made. These can categorise expenses into groups like food and shopping using the store name with the amount. The prototype shows recent expenses but does not yet allow CSV export. A dictionary based feature was also tried where frequent keywords can create a new category. For example, if movie is first categorised as other but more movie payments are made, then a separate movie category will be created.

Conclusion:

The group finalised the Google Form and agreed that it will be supported with

use case analysis and study of existing systems to make the requirement gathering stronger. The Figma draft of the dashboard served as the base layout, with graphs, dark and light modes, and button placements finalised. On the

backend side, the AI categorisation prototype worked as expected and will be improved further with auto category creation using the dictionary based approach.

Meeting – 8

Date: 16th September, 2025

Agenda:

- Finalise dashboard colour scheme for light and dark mode.
- Frontend progress on profile, settings, and homepage.
- Backend updates on dictionary, voice-to-text, and bill parsing.
- Work on user stories, stakeholders, and elicitation techniques.

Participants: All

What we have discussed in the meeting:

- On the frontend, the dashboard colour scheme was changed for both light and dark mode after yesterday's discussion on colours, and further improvements were made. Work was also started on the profile and settings section, along with a discussion on how the homepage should be implemented.
- On the backend side, the dynamic dictionary feature was successfully implemented. Research was carried out on voice-to-text implementation and bill parsing as possible additions to the system.
- We also continued work on use stories, identifying stakeholders, and refining elicitation techniques to make sure all requirements are being captured properly.

Conclusion:

The group finalised the dashboard colour scheme for light and dark mode and moved ahead with improvements on the dashboard, profile, settings, and homepage design. The backend team delivered a working version of the dynamic dictionary and explored future features like voice-to-text and bill parsing. On the requirements side, user stories, stakeholders, and elicitation techniques were advanced further and will be used to strengthen the project documentation.

Meeting – 9

Date: 19th September, 2025

Agenda:

- Review progress of frontend and backend tasks
- Continue work on elicitation techniques, stakeholders, user stories, and epics
- Check possibilities for frontend and backend integration

Participants: All

What we have discussed in the meeting:

- On the frontend side we worked on improving the flow by refining the profile and settings sections and revisiting the homepage layout. We also talked about keeping the colour scheme and button placements consistent across pages.
- The backend team focused on strengthening the AI categorisation logic, testing the dictionary-based category creation, and starting early trials for CSV export. Research on voice to text and bill parsing continued in parallel.
- We also worked on drafting epics and started linking the user stories under them. This helped in structuring the requirements into bigger features instead of scattered smaller tasks. At the same time we listed conflicts such as balancing AI powered automation with user privacy and how to prioritise survey insights versus design preferences.

Conclusion:

Frontend progress was made on profile, settings, and homepage while backend stabilised the AI categorisation and explored CSV export along with voice to text and bill parsing. The group advanced user stories and stakeholder mapping, began organising them into epics, and identified conflicts that will guide design and feature trade offs.

Meeting – 10

Date: 20th September, 2025

Agenda:

- Team sync up on project progress
- Backend feature testing and frontend updates
- Work on epics, conflicts, and refining documentation

Participants: All

What we have discussed in the meeting:

- The frontend team finalised changes to the homepage and connected it with the dashboard flow. More updates were made to the settings page and fixes applied to button placements. The final frontend design was completed on Figma covering the dashboard, homepage, settings, and profile pages with consistent colour schemes for light and dark mode. The toggle for personal and split expenses was also integrated.
- The backend tested the dynamic dictionary feature thoroughly and confirmed that new categories are being created as intended. There was also discussion on how bill parsing and voice to text can be implemented in later stages.
- On the requirements side we refined elicitation results by finalising survey responses and connecting them with analysis of existing systems. We also organised more user stories under the epics created earlier and added new conflicts such as deciding how detailed AI categorisation should be versus how much control the user should have, and making sure design consistency does not slow down feature development.

Conclusion:

The project reached a stable point with the homepage and dashboard flow finalised on Figma and the settings and profile sections taking shape. Backend testing of the dynamic dictionary was successful and planning for bill parsing and voice to text was discussed. The requirements work advanced with user

stories being properly mapped into epics and conflicts documented to ensure clarity in future sprints.