

DevSync

CSC 317 Foundations of Software Development

Mr. Chad McDaniel

02/19/2025

Summary of Initial Icebreaker Meeting

Our group, DevSync, had our first meeting to get started on the semester project. We began by setting up MS Teams for professional communication so that everyone could stay updated. At the same time, we also exchanged phone numbers, just in case, for quick and easy communication when needed.

After that, we started brainstorming project ideas for 10 minutes on a shared Word document. After discussing different options and ideas, we all agreed on three projects: SmartStock, InternEase, and EcoSort (described in detail in the project ideas section below). We also confirmed that these ideas met the technical requirements outlined in the Semester Project Outline on Canvas.

During the meeting, we noticed that our group worked really well together, and the discussion felt natural. That's why we came up with the name DevSync for our group. To stay organized and ensure everyone stays up to date, we also decided that one person will take notes during each meeting (we will take turns) and share them on Teams under the meeting spreadsheet. While brainstorming, we also agreed to track our group's emotional level each week on a scale of 1 to 10 (10 being the highest). This way, we can monitor how we're progressing throughout the project.

The initial meeting went smoothly, and some of us even met more than twice to further discuss the project and plan how we will tackle it in the coming days.

Project Idea 1:

SmartStock will be a platform designed for inventory management. It will be customized to meet the needs of local stores by allowing them to easily track product stocks and manage inventory. It would also offer features such as adding inventory to track received stock, monitoring sold items, and disposing of expired products. The platform could provide insights on the best-selling products of the week and give helpful tips on items that frequently run low. Shop owners should be able to filter through categories to quickly find information on their products. SmartStock will also have database integration through cloud database, so information would be synchronized across devices in real time.

Project Idea 2:

InternEase will be a platform designed to help students and job seekers manage their applications in one place. It will allow users to track their applications, schedule interviews, and store details about application statuses. The platform could also provide insights on application trends and give feedback on how applications perform in different fields. Users would be able to access a library of prewritten cold email templates to send to recruiters. InternEase should help users stay organized and could improve their chances of securing opportunities.

Project Idea 3:

EcoSort will be a platform designed to help users be more eco-friendly while earning rewards and supporting the environment. It will save time with its smart trash classification and would also motivate users through its reward system. The platform will use Azure Machine Learning to identify waste types and automatically add items to the user's recycling bin. The system would categorize trash, track weekly recycling habits, and provide insights on choosing more sustainable alternatives to replace non-recyclable waste. Through EcoSort, users will be able to earn points and claim rewards for consistent recycling efforts, which is also a reminder towards green world.

Team Member Initial Roles and Responsibilities

- **Saleep Shrestha: Project Manager**

As the Project Manager, I will lead the project from start to finish, making sure we meet deadlines, follow technical requirements, and work well as a team. I would also help coordinate communication between the front-end, back-end, QA, and database teams, solve problems, and keep everyone informed. I will mostly support developers by writing code, reviewing pull requests (and making sure everyone pulls from GitHub before working on any project), and ensuring we use version control properly. I will organize project documents, format reports, and check that we follow the Semester Project Outline properly. I will also track the team's emotional level each week (which has been very helpful based on my IDS 460 class) and lead brainstorming sessions to keep the project moving forward.

- **Rabindra Giri: Back-end Developer**

As a backend developer, I will be responsible for integrating APIs and utilizing MAUI elements and controls in the backend to ensure proper integration of features mentioned in the requirement. I will also be responsible for implementing backend architecture to the project and help in making ideas more feasible by dividing complex backend architecture into implementable

features. I will handle user authentication, scalability and ensure the proper structure of the application while writing code

- **Himanshu Shah: Front-end Developer**

I will design and build user interfaces using .NET MAUI, making sure they are easy to use and work well on different devices. I will turn project requirements into clear UI components, connect them with back-end APIs, and work with QA to fix any usability issues. My goal is to keep the design consistent across platforms and follow modern design standards.

- **Saqib Mahmood: Quality Assurance Tester**

I will mostly create and run tests to check that all features work correctly, load quickly, and are easy to use. I will test the system manually and with automation, report any bugs, and make sure fixes meet project requirements. I will also check that the application works well on different browsers and devices and help developers improve user experience.

- **Arinze Chiekwu: Database/Server Developer**

As a Database/Server Developer, I will design, improve, and manage the database and server. My work includes writing SQL queries, keeping data secure, setting up cloud services like Azure, and making sure data updates in real time for features like SmartStock's inventory tracking. I will also work with back-end developers to improve API connections and solve scaling issues.