

# Cloud Kitchen

---

SE-441 - Reflection Report



## Submitted To

---

Dr Syed Khaldoon Khurshid

## Submitted By

---

Noor Fatima	2022-CS-08
Ameer Hamza	2022-CS-17
Muhammad Zubair	2022-CS-20
Abeer Fatima	2022-CS-39

---

Department of Computer Science  
University of Engineering and Technology, Lahore  
Pakistan

**Table of Contents**

<b>1</b>	<b>Project Overview</b>	<b>3</b>
<b>2</b>	<b>Challenges Faced</b>	<b>3</b>
<b>3</b>	<b>Insights and Takeaways</b>	<b>3</b>
<b>4</b>	<b>Experiences Gained</b>	<b>4</b>
<b>5</b>	<b>Conclusion</b>	<b>4</b>

## 1 Project Overview

The **Cloud Kitchen** project was a valuable learning experience for our team. We worked together to develop a platform that connects home chefs with customers, providing hygienic, homemade, and budget-friendly meal delivery. The platform also incorporated **meal customization** features, allowing users to tailor their orders, and an **AI-powered recommendation system** to enhance the customer experience. Throughout the project, we gained knowledge, solved challenges, and improved our teamwork skills.

## 2 Challenges Faced

Some challenges faced by us were:

- Ensuring smooth frontend and backend integration, especially in authentication for different user roles.
- Designing an intuitive meal customization feature required multiple iterations based on user feedback.
- Adopting Agile methodology and managing sprints using Scrum was initially challenging but improved with practice.

## 3 Insights and Takeaways

Throughout this project, we gained valuable insights into both agile development and stakeholder expectations. Key takeaways include:

- Gained hands-on experience in **agile development**, team collaboration, and problem-solving.
- Used **Sprint Retrospectives** to identify areas for improvement, such as better backlog estimation and issue tracking.
- Balancing the needs of **customers, home chefs, and delivery partners** to ensure a well-rounded and effective platform.
- Engaged with stakeholders through user surveys and beta testing to refine features like AI recommendations and order tracking.
- Optimizing key features such as **meal customization, AI-powered recommendations, and order tracking** based on user feedback.

## 4 Experiences Gained

During this project, we encountered and overcame multiple real-world challenges, which significantly contributed to our learning curve:

- **Agile Methodology:** We learned how Agile works, including setting up and managing a **Scrum board** to effectively plan and execute tasks.
- **Team Collaboration & Problem-Solving Skills:** We enhanced our ability to work in a team, improving communication and task delegation. Learned how to resolve conflicts within the team and effectively incorporate differing opinions to achieve common goals.
- **Time Management:** Managing sprints and meeting deadlines taught us the importance of efficient scheduling and workload distribution.
- **Stakeholder Engagement:** Interacting with different user groups and incorporating feedback improved our understanding of user needs and expectations.

## 5 Conclusion

This project allowed us to apply software development concepts while improving our teamwork, problem-solving, and user-focused design skills. Looking ahead, we plan to enhance the platform by improving logistics, refining AI recommendations, and expanding scalability.