Report on

Cloud Restaurant

Prepared for

Dr. Mr. Taslim Taher Assistant Professor Department of CSE	Ms. Tasnuva Binte Rahman Lecturer Department of CSE

Course No: CSE 3224
Course Name: Information System Design & Software Engineering Lab

Prepared by

Lab Section: A1

Group Name/No: A103

Group Members:

20210104005	Naeema Jannat
20210104008	Mostafiz Fahim
20210104009	Asadut Jaman

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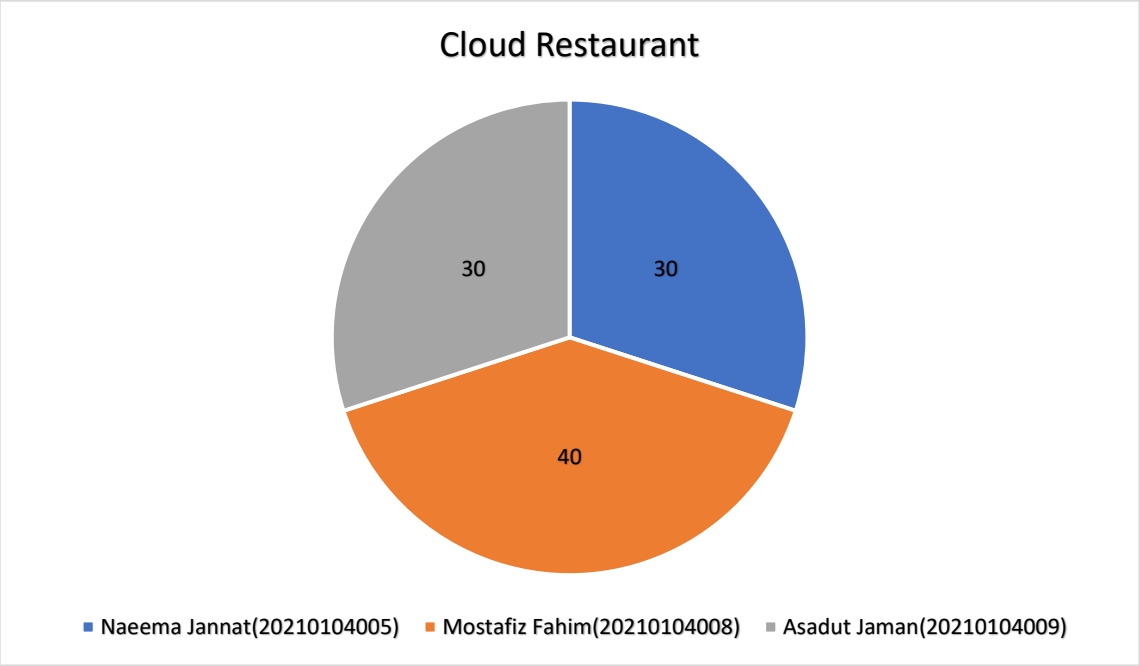*Department of Computer Science and Engineering*

Risk Analysis :

1. **Market Competition:** The shop may face stiff competition from established online food delivery platforms and other local restaurants offering similar cuisine, making it challenging to attract and retain customers.
2. **Technical Issues:** The online ordering system could encounter technical issues such as website crashes, slow loading times, or payment processing errors, leading to a poor user experience and customer frustration.
3. **Data Security:** Storing customer data such as personal information and payment details may pose security risks, including the possibility of data breaches or cyberattacks, resulting in financial losses and reputational damage.
4. **Supply Chain Disruptions:** Dependency on suppliers for ingredients and delivery services for timely order fulfillment exposes the shop to risks such as ingredient shortages, delivery delays, or quality issues, impacting customer satisfaction and revenue.
5. **Inventory Management:** Not enough synchronization between online orders and inventory levels could result in out-of-stock items being displayed on the website, leading to customer annoyance and order cancellations.
6. **Staff Training:** Poor training for restaurant staff on how to manage online orders and utilize the website's features effectively could lead to order processing errors and customer dissatisfaction.
7. **Device Compatibility:** Different web browsers and devices may interpret HTML, CSS, and JavaScript code differently, leading to inconsistencies in website appearance and functionality.
8. **Financial Risks:** Fluctuations in food prices, operating costs, and revenue may impact the shop's profitability, especially during slow periods or economic downturns.
9. **Customer Feedback and Reputation:** Negative reviews or complaints about food quality, delivery times, or customer service could harm the shop's reputation and deter potential customers from ordering in the future.
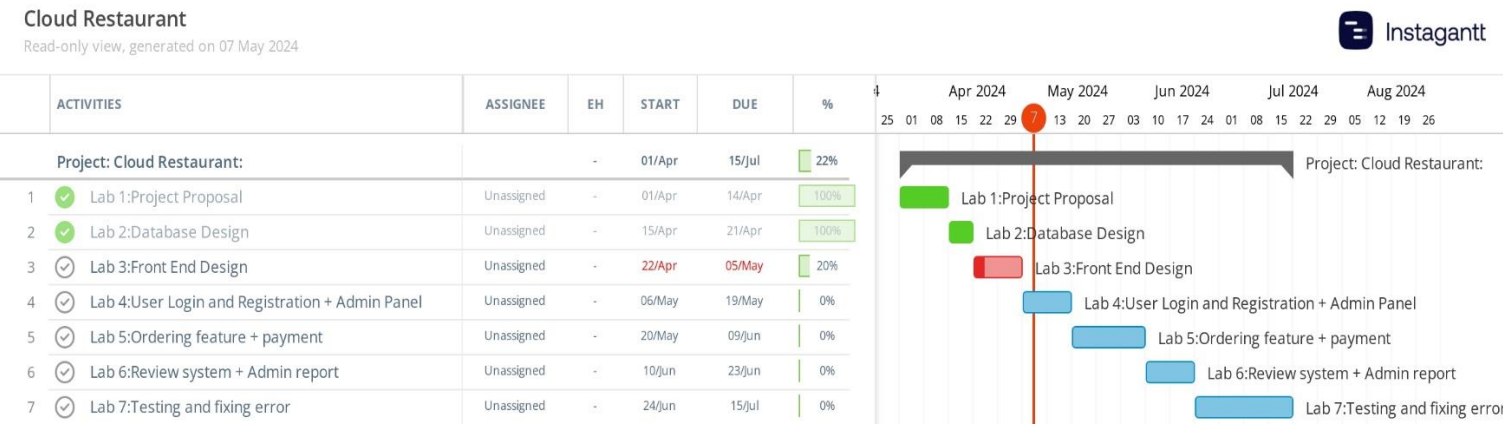
Challenges:

1. **Integration of Multiple Technologies:** Combining HTML, CSS, C# and MySQL requires careful coordination to ensure compatibility and functionality across the website.
2. **Managing Complex Data Interactions:** Handling customer orders, payments, and inventory updates in real-time while maintaining data integrity poses challenges in managing complex data interactions.
3. **User Experience Design:** Designing a user-friendly interface that is easy to navigate for both customers placing orders and restaurant staff managing the platform is critical for a successful project.

4. **Balancing Security and Usability:** Ensuring the security of sensitive customer information without sacrificing usability presents a challenge, as maintaining a high-security standard while providing a seamless user experience can be difficult.
5. **Meeting Project Deadlines:** Unexpected technical issues may arise, requiring effective project management to ensure that project deadlines are met despite these challenges.

Workload Distribution:

Gantt chart:

Entity Relational Diagram(ERD):