UNIVERSITY OF FRONTIER TECNOLOGY, BANGLADESH (UFTB)

LAB REPORT

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HomelyBites

SoloByte

Department of Software Engineering
UNIVERSITY OF FRONTIER TECHNOLOGY, BANGLADESH

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Contents

1 Implement SDLC selection for HomelyBites

Priority	Criteria	Waterfall	V-Model	Iterative	Spiral	Prototype	Agile (Best Fit)
10	Knowledge about Model	High (8)	Medium (4)	Medium (5)	Medium (4)	Low (3)	Very High (10)
9	Requirement Flexibility	Low (1)	Medium (3)	High (7)	Medium (4)	Medium (5)	High (9)
8	Customer/User Involvement	Low (0)	Medium (2)	High (6)	Medium (4)	Medium (5)	Very High (9)
8	Risk Management	Low (1)	Medium (3)	Medium (4)	Very High (8)	Medium (5)	High (6)
8	Scalability	Low (1)	Low (1)	High (6)	Medium (4)	High (6)	Very High (8)
10	Time Consuming	Low (1)	Low (1)	High (7)	Medium (4)	High (7)	Very High (10)
TOTAL = 53		12	14	35	28	31	52

Figure 1: Implement SDLC selection for **HomelyBites**

2 Chosen Model

We are selecting the Agile SDLC model for HomelyBites because:

- Knowledge about Model
  - Food delivery systems like HomelyBites require a development team that understands the chosen SDLC model well. Agile is effective when the team has proper knowledge of sprints, backlogs, and continuous delivery.
- Incremental Development
  The system can be built step by step:
  - Sprint 1: User Login and Registration
  - Sprint 2: Chef Menu Management
  - Sprint 3: Customer Ordering and Payment
  - Sprint 4: Delivery Management
  - Sprint 5: Ratings, Reviews and Analytics
- User Involvement
  - Housewives (chefs), customers, and delivery staff can test early versions and provide feedback, ensuring usability and continuous improvement.
- Faster Delivery
  - Agile enables a Minimum Viable Product (MVP) within weeks, instead of waiting months for the complete system.

- Adaptability to Change
  - As new technologies (AI recommendations, food safety compliance, Bangla/English localization) emerge, Agile allows smooth integration.
- Risk Management
  - Continuous testing in each sprint reduces risks of payment failures, order mismanagement, or system crashes.
- Scalability
  - As the user base grows across cities, Agile ensures HomelyBites can scale without a complete redesign.

3 Conclusion

Agile is the best fit for HomelyBites because it provides:

- Continuous improvement.
- Faster product delivery.
- High customer satisfaction.
- Adaptability to market and user needs.

Other models (Waterfall, V-Model) are too rigid; Spiral is too costly; Prototype is good for demos but not sustainable for long-term growth.

PROJECT WORKS	MIZAN(ID-2303005)	ROJONY(ID-2303010)	REDOAN(ID-2303018)
DOCUMENTATION	☐	☑	☑
DIAGRAM / FIGURE	☑	☐	☐

Figure 2: Working Plan