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LAB REPORT

SUBMITTED BY:

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1STYEAR 2ND SEMESTER

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FACULTY OF SOFTWARE & MACHINE INTELLIGENCE ENGINEERING

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COURSE TITLE: System Analysis and Design

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LAB EXPERIMENT NAME: SDLC Selection

For Project

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HomelyBites

SoloByte

Department of Software Engineering UNIVERSITY OF FRONTIER TECHNOLOGY, BANGLADESH

September 2, 2025

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1 Implement SDLC selection for HomelyBites

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

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.

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DOCUMENTATION		☑	V
DIAGRAM / FIGURE	N		

Figure 2: Working Plan