

Library Book Borrowing System

SDLC Model Selection

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Model Selection

Here, a table is created for the SDLC Model for the **Library Book Borrowing System**. We chose some categories that are suitable for this project. Then we select some priority above the requirement for this project. Then we check which category is supported by which model. After that, we choose the most suitable model above the priority we set for each category. Finally, we will set this SDLC Model for our project.

Priority	Criteria	Waterfall	V-shape	Iterative	Spiral	Agile	Prototype
5	Well known requirement	Yes	Yes	No	No	No	No
3	Technological knowledge	Yes	Yes	Yes	Yes	Yes	Yes
6	Efficiency	No	Yes	Yes	Yes	Yes	Yes
3	Risk analysis	No	No	Yes	No	No	No
5	Using testing ability	No	Yes	Yes	Yes	Yes	Yes
5	Dependability & security	Yes	Yes	Yes	Yes	No	No
3	Time consuming	Yes	No	No	Yes	No	No
Total-30	Overall	16	24	22	22	14	14

In this SDLC Model, **Waterfall scores 1, V-Shaped scores 24, Iterative scores 12, Spiral scores 22, Agile scores 14, and Prototype scores 14**. Since the most important categories like *Efficiency, User Testing, and Dependability/Security* are strongly supported by the **V-Shaped Model**, we prefer the **V-Shaped Model** as the best option for our project.