

GAZIPUR DIGITAL UNIVERSITY

Kaliakour,Gazipur

LAB REPORT NO: 03

***LAB REPORT ON: Implement SDLC selection for HOSPITAL MANAGEMENT
SYSTEM***

Course Title:SYSTEM ANALYSIS AND DESIGN SESSIONAL

Course Code:SE 118

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Table 1: Comparison matrix with different models

Priority	Criteria	Waterfall	V- Shaped	Spiral	Iterative	Agile	Prototype
5	Well-Known Requirements	Yes	No	No	No	No	No
3	Technological Knowledge	No	Yes	Yes	Yes	Yes	Yes
6	Efficiency	No	No	Yes	No	Yes	No
3	Risk Analysis	No	No	Yes	No	No	No
5	User Testing Ability	No	Yes	Yes	Yes	Yes	Yes
5	Dependability & Security	No	No	Yes	Yes	No	No
3	Time Consuming	No	No	Yes	Yes	Yes	Yes
3	Documentation	Yes	Yes	Yes	No	No	No
Total 33		8	11	28	16	18	11

From the evaluation, the Spiral Model (28 points) is the most suitable SDLC model for the Hospital Management System.Strong risk management (vital for patient data and hospital operations).High security and dependability

(ensuring safe handling of sensitive information).Continuous user involvement (doctors, nurses, staff feedback at each phase).Flexibility for changes in hospital workflows.Thus, the Spiral Model is the best fit for ensuring a secure, reliable, and adaptable Hospital Management System.