Online Voting System

Requirement Specification

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1 Objective(s)

To develop a secure, reliable, and user-friendly online voting system that ensures transparency and accuracy in the election process.

2 Problem Analysis

- Traditional voting systems take a lot of time, can have mistakes, and are not very secure, so we need a safe and efficient online voting system.

3 Methodology

- Requirement Specification Procedure:

3.1 Implementation in Online Voting System

Table 1: Comparison matrix with different models

Priority	Criteria	Waterfall	V-shape	Iterative	Spiral	Agile	Prototype
5	Well known requirement	No	No	No	No	No	No
4	Technological knowledge	Yes	Yes	Yes	Yes	Yes	Yes
6	Efficiency	No	No	Yes	Yes	Yes	Yes
5	Risk analysis	No	No	Yes	Yes	No	No
5	User testing ability	No	No	Yes	Yes	Yes	Yes
6	Dependability and Security	No	Yes	Yes	Yes	No	No
4	Time consuming	Yes	Yes	No	Yes	No	No
Total - 30 Overall Score		**9**	**14**	**20**	**28**	**17**	**14**

SDLC Selection for Online Voting System

In this SDLC Model, we created a comparison table for the Online Voting System. We chose some important categories such as technological knowledge, efficiency, dependability, user testing ability, and risk analysis, which are very important for this project. Then we set different priorities based on the requirements of the system. After that, we analyzed which category is supported by which SDLC model.

In this SDLC Model, Waterfall scores 9, V-Shaped scores 14, Iterative scores 20, Spiral scores 28, Agile scores 17, and Prototype scores 14. Here our most important categories like dependability and security, efficiency, risk analysis, and user testing ability are strongly supported by the Spiral Model.

Therefore, we prefer the Spiral Model as the most suitable option for developing the Online Voting System.