**Daily report**

Firstname: Aida

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Field of activity: AI

Collaboration start date: 1404/04/17

Date of report: 1404/04/23

Number of report: 1

Part One: Study Phase

Duration: 5h



Tomorrow's work priorities: completing the study of SRS and improving skills in using GitHub.

"I am currently studying and researching the topic of SRS, and at the moment I have prepared a report of my initial findings, which I will complete further in the following sections."

"I spent some time learning GitHub."

* **Introduction :**

The Software Requirements Specification (SRS) is a critical document in the software development life cycle.

* **Standard Structure of SRS:**

1. preliminary section:

* **Purpose of the Document**
* **Definitions and Technical Terms**

**…**

1. Overall Description of the Product:

* Product Vision
* Target Users
* General Constraints
* Operating Environment (web , mobile,…)

1. specific Requirements:

* Functional Requirements:   
  They include detailed descriptions of features, inputs, outputs, and system behavior under various conditions.
* Non-Functional Requirements
* UI/UX Requirements
* Database Requirements
* Integration Requirements
* **documentation techniques:**

Using of Standard Templates:

* Diagrams and models (use case diagrams, flowcharts, UML diagrams etc.)
* Tables and matrices
* Structured Text Descriptions(clear, concise, complete, consistent, correct)
* Step by step structure
* Color coding system
* Change Management(history table for any requirements)
* Expert Systems(jama connect, modern requirements)

**SRS Standards :**

Document structure

Focus

scope

General software projects

1. IEE 830

Standard document template

Output

Focus

Processes

scope

All organizational projects

1. **ISO/IEC 29148**

Output

Requirement engineering processes

Safety and Risk

Focus

scope

1. **IEC 62304**

Critical domains

(medical/industrial)

Output

Regulatory – approved docs