

Software Design Document

For

[Project/feature group]

Prepared by

[Employee and role]

Document Revision and History

Document Purpose	This document is a result of the impact analysis of adding new features, requirements, and modules on the current running system.
Generation Date	12 Oct 2015
Modification Date	12/31/2022
Generated By	[employee name]
Update By	[employee name]

Table of Contents

Part 1- Introduction	4
Section 1: Introduction to Problem statement	4
Section 2: Project abstraction - Solutions	4
Section 3: Previous work	4
Section 4: Proposed work [Focus on the edge]	4
Part 2: business and System analysis	4
Section 1: Persona description	4
Section 2: User stories	4
Section 3: Use cases descriptions	5
Section 4: Activity Diagrams	7
Part 3: Solution Design	7
Section 1: Technology and platforms requirements	7
Section 2: UI/UX and wireframes	7
Section 3 : Entities Mapping	7
Section 4 : Supportive equation	7
Part 4: Conclusion and future work	8
Section1 : Conclusion	8
Section2 : Future Work	8

Part 1- Introduction

Section 1: Introduction to Problem statement

Section 2: Alternative solutions

Section 2: Project abstraction - Solutions

Section 3: Previous work

Section 4: Proposed work [Focus on the edge, and competition]

Part 2: business and System analysis

Section 1: Persona description

Persona	Characteristics	Values	Use case name
[Ahmed the student]			
[Mona the teacher]			
[Ali the parent]			

Section 2: User stories

Identifier	User story	Priority
ST-01	As [Role], In order to [Objective], I can [Requirement]	
ST-02	As [Role], In order to [Objective], I can [Requirement]	
ST-03	As [Role], In order to [Objective], I can [Requirement]	

Section 3: Use cases descriptions

[Each use case should be mapped to only one user story]

Use Case 1 - UC1	
[Name of the use case]	
Related User story	[]
Initiating Actor:	[The role that will interact]
Pre-condition	[State that should be met before executing the case]
Post-condition	[State that should be met after executing the case]
Flow of Events for Main Success Scenario:	
Flow of Events for Extensions (Alternate Scenarios):	

Use Case 1 - UC2	
[Name of the use case]	
Related User story	[]
Initiating Actor:	[The role that will interact]
Pre-condition	[State that should be met before executing the case]

Post-condition	[State that should be met after executing the case]
Flow of Events for Main Success Scenario:	
Flow of Events for Extensions (Alternate Scenarios):	

Use Case 1 - UC3	
[Name of the use case]	
Related User story	[]
Initiating Actor:	[The role that will interact]
Pre-condition	[State that should be met before executing the case]
Post-condition	[State that should be met after executing the case]
Flow of Events for Main Success Scenario:	
Flow of Events for Extensions (Alternate Scenarios):	

Section 4: Activity Diagrams

[Add multiple activity diagrams for each set of use cases to identify the process flow and dependencies]

[Represent the flow of the previously mentioned use cases]

Part 3: Solution Design

Section 1: Technology and platforms requirements

[Write any technology requirements/constraints here, like mobile development or web development]

Section 2: UI/UX and wireframes

Section 3 : Entities Mapping

[For each expected entity/screen found in the wireframe, you should define its expected attributes detailed information]

Table/Screen	Column	Type	Length	Business rule

Section 4 : Supportive equation

[Add here all used equations that will be used in developing the model.]

Table/Screen	Measurement/Metric	Description	Formulation

--	--	--	--

Part 4: Conclusion and future work

Section1 : Conclusion

[Add your conclusion about the impact of the solution after implementing required features]

Section2 : Future Work

[Add list of recommended features to be added in later projects]