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**PROJECT TITLE**

**SUBJECT NAME**

**PRESENTED BY**

Student ID: Student Name

**PRESENTED TO**

Mrs. Nurulhusna Abdullatif

**INFORMATION TECHNOLOGY DEPARTMENT**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**FATONI UNIVERSITY**

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**Document Guideline**

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**INTRODUCTION**

**1.1 executive summary**

summary the feasibility that was study, analyze budget to use and profit to get it, analyze for time frame to develop

**1.2 problem statement**

explain in paragraph what are their problem and figure out that with Fishbone

**1.3 study guide**

explain current system in their company, give resource to get information (who give all information, how to get information, reference it)

**1.4 Analyze**

How is new system look like, system scope, and system capabilities

**1.5 Solution**

How to solve the problem (Should answer all problems)

**1.6 Recommendation**

Some recommendation to company

**1.7 Plans**

Activity in time schedule (Use grant chart)

**REVIEW RELATED WORK**

2.1 A **literature review, research review,**or **related work**section compares, contrasts, synthesizes, and provides introspection about the available knowledge for a given topic.

**ANALYSIS PHASE: SYSTEM REQUIREMENT**

**3.1 Use case Diagram**

Use a case diagram to illustrate the relationship between the system and the outside of the system and show all the components or let them come here occasionally to begin reading. By searching for words what the system does regardless of workload or technique like a "black box".

Here is an example of a use case, a use case can take many forms.

Business

Airport

Tour Gulde

Include

Minor Passenger

Extend

Extend

Extend

Passenger

Passenger

With special needs

A use case is a model. It is a diagram that is used to tell what work will be done for whom. What are the users and what will they do?

expressed

Verified

Test Model

Implemented

realized

structured

Requirement Model

Analysis Model

Design Model

Implementation Model

specifiled

Symbol

Ellipse instead Use case

people instead Ator

**Relationship between actors**

Relationship (Relation) between actors can be divided into

The relationship between Actor and Use case, which can be classified as a unidirectional relationship, can be divided into 3 cases as follows

Actor is the one who receives information from the use case, uses the symbol

Actor sends data to the use case, uses the symbol

Actor is the person who receives and sends data to the use case. Use symbols.

**Relationship between Actor and Actor**

There is a relationship in which properties can be inherited. Actor roles and functions from Actor Superclass to Actor Subclass are called Generalization(/Specialization) Relationship.

**Relationship between use cases**

Divided into 3 types

1.Generalization / Specialization

2.Includes or Use

3.Extends

**1. Validation of system users**

Hospital Reception

Extends

Extends

Receptionist

Includes

Includes

**2. Foreign currency trading of financial institution**

Foreign Currency

trading

Stop Foreing Exehange

Traveller Cheque Trading

Foreing Exehange

Forward Foreing Exehange

**3.2 List of Requirement**

M – mandatory requirement (what the system must do)

* The system must be able to track employee attendance and work hours.
* The system must have a secure login and authentication process.
* The system must provide managers with the ability to create and assign tasks to employees.
* The system must be able to generate detailed reports on employee performance and productivity.
* The system must be able to manage employee payroll accurate pay stubs.
* The system must allow employees to request time off and manage their vacation days.
* The system must be able to handle a certain number of users concurrently without crashing.
* The system must allow managers to set and adjust employee schedules.
* The system must maintain a detailed record of employee performance and disciplinary actions.
* The system must be able to manage and store employee files and documents securely.

D – desirable requirement (what the system preferably should do)

* Improve Performance: It’s a requirement that the system should make to improve performance, for example reducing page loading time or increasing the processing speed of the system.
* Adding Functions: It’s a requirement that the system should make to add new functions that will provide a better user experience or provide additional capabilities.
* Improving the interface: It’s a requirement that the system should make to improve the interface so that information is presented more easily understandable and beautiful.
* Compatibility with other systems: It’s a requirement that a system should make in order to effectively integrate with other systems such as operating systems. or other software
* Environmental Efficiency: It’s a requirement that the system should make in order to reduce the impact on the environment or make the system more sustainable.

O – optional requirement (what the system may do)

|  |  |  |  |
| --- | --- | --- | --- |
| NO. | Requirement ID | Requirement Description | Priority |
| 0 | Reg01 | Login | M |
| 1 | Reg01\_01 | Employee have to login | M |
| 2 | Reg02 | Employee self-service |  |
| 3 | Reg03 | Skills tracking | M |
| 4 | Reg04 | Time off management | M |
| 5 | Reg05 | Payroll integration |  |

**3.3 System requirement specification**

|  |  |
| --- | --- |
| Function | Deliver products without calling customers |
| Brief Description | When someone delivers the product, the customer doesn't answer the phone. We will only be able to deliver the product if it has this function, with pearl embroidery on the address. |
| Input | Customer address |
| Source | Address entry form |
| Output | The product arrives at home without us having to wait for the phone call. |
| Requires | Must have a signature from the house such as parents, siblings |
| Stakeholder | Customer, shipper |
| Pre-Conditions | Customers must complete the information first. |
| Post-Conditions | Receive the product without having to wait for the product |
| Main Flow | 1.Customers must fill out an address information form.  2. The customer must complete the payment first.  3. Customers receive information as proof of purchase. and product code |
| Exception Condition | If not signing parents, siblings The product will be bounced. |

**3.4 Data Flow Diagram**

* Context level
* DFD Level 1
* DFD Level 2

**3.5 Process Description**

|  |  |
| --- | --- |
| System |  |
| DFD Number |  |
| Process Name |  |
| Input Data flows |  |
| Output Data Flows |  |
| Data Stores used |  |
| Description |  |
| Method |  |

**3.6 Entity Relationship Diagram**

**3.7 Data Dictionary**

Student registration database system

Registration report

Date: 14 March 2022

Year 2022 Semester 2

Student Id 631431017 Name Walif Mamu

|  |  |  |  |
| --- | --- | --- | --- |
| Sequence | Subject ID | Subject group | Subject name |
| 1 | IT2301-312 | 1 | Information System Analysis and Design |
| 2 | IT2301-203 | 1 | IT laws and Ethics in Shariah Perspective |
| … |  | … |  |

**Database Schema**

Student (student ID, student Name)

Subject (subject ID, subject Name)

Register (registerID, registerStudentID, registerYear, registerSemester, tegisterDate)

Datail (dataillD, detailregisterID, detailSubjectID, detailSection)

**Data Dictionary – Data Dict**

Table: Student

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Key** | **Sample** |
| Student ID | Char (10) | Student ID | PK | 631431017 |
| Student Name | Char (30) | Student Name |  | Walif Mamu |
| … | … | … | … | … |

Table: Subject

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Key** | **Sample** |
| Subject ID | Char (10) | Subject ID | PK | Information System Analysis and Design |
| Subject Name | Char (30) | Subject Name |  | IT laws and Ethics in Shariah Perspective |
| … | … | … | … | … |

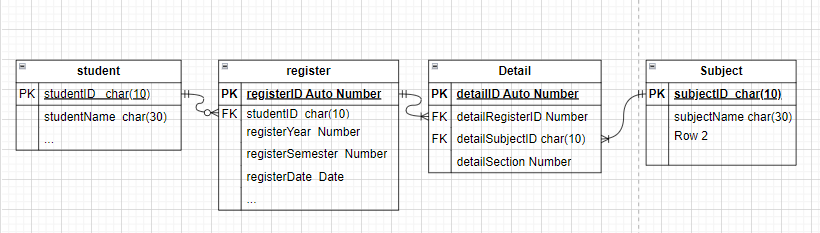
Table: Register

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Key** | **Sample** |
| Register ID | Auto number | sequence of registration | PK | 1 |
| Register Student | Char (10) | Registered Student ID | FK  Student,studentID | 631431017 |
| Register Year | Number | Year |  | 2022 |
| Register Semester | Number | Semester |  | 1 or 2 |
| Register Date | Date | registration date |  | MM/DD/YYYY |

Table: Detail

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Description** | **Key** | **Sample** |
| Detail ID | Auto number | sequence of registration details | PK | 1 |
| Detail Register ID | Number | sequence of registration | FK  Register, Register ID | 1 |
| Detail Subject ID | Char (10) | The course code for which the student is registered | FK  Subject, Subject ID | IT2301-312 |
| Detail Section | Number | study group |  | 1,2,3 more |

ER Diagram – Entity Relationship Diagram



**DESIGNING PHASE**

**4.1 System Architecture**

**4.2 Input output Design**

**4.3 System Prototyping**

**Appendix**

Adding your photo that explore

group members biography