



TRƯỜNG ĐẠI HỌC FPT

FACILITIES FEEDBACK

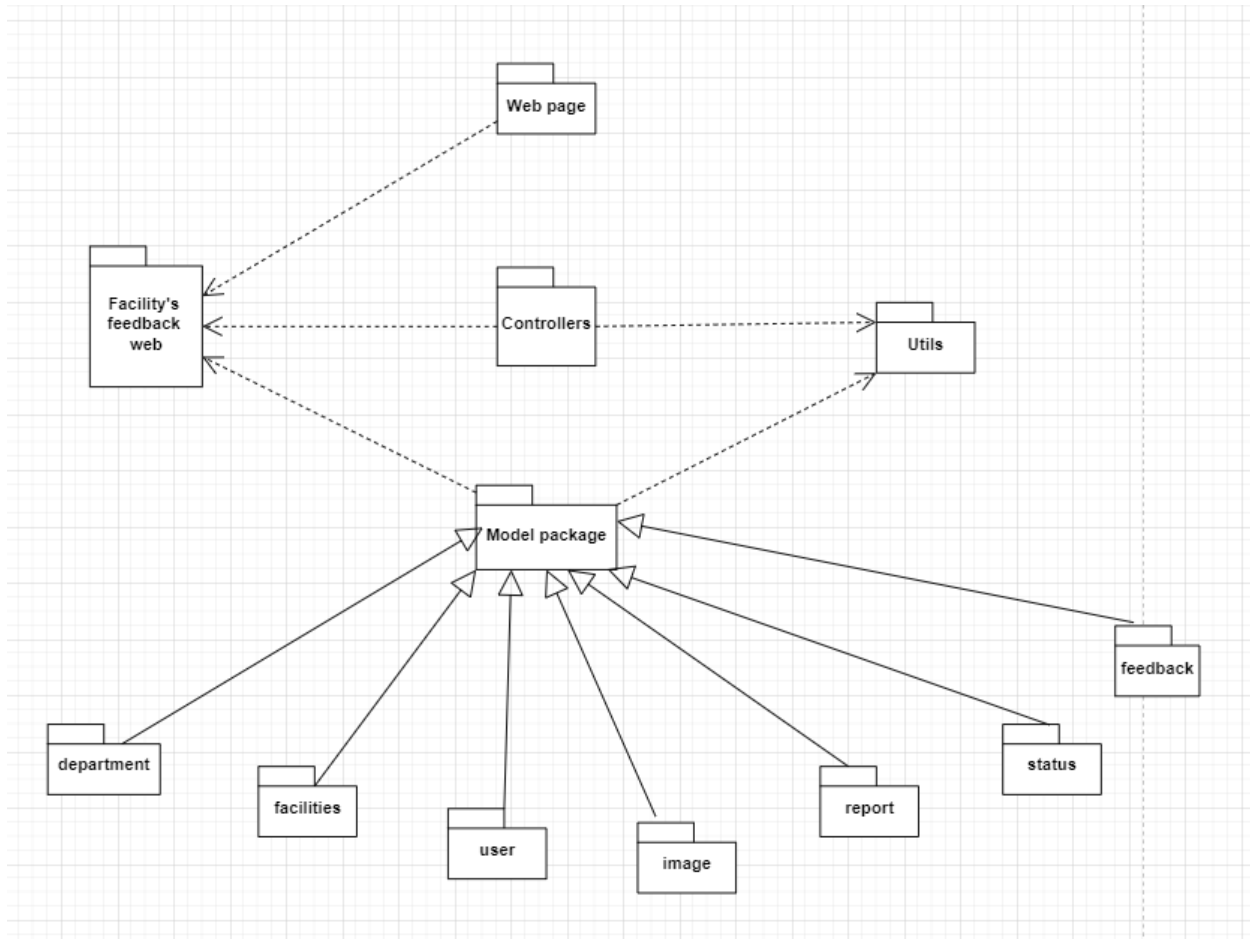
Software Design Document

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I. Overview

1. Code Packages/Namespace



Package descriptions & package class naming conventions

No	Package	Description
01	Web pages	This page contain the support files that provide rendering for the website. name.jsp
02	controllers	This package contains classes to provide services to users by combining many function from model packages and Web pages to render pages ActionNameController.java
03	department	This package contains DTO classes containing Value Objects and DAO classes containing functions belonging to departmental objects. DepartmentDAO.java DepartmentDTO.java
04	facilities	This package contains DTO classes containing Value Objects and DAO classes containing functions belonging to facilities objects. FacilityDAO.java FacilityDTO.java
05	feedback	This package contains DTO classes containing Value Objects and DAO classes containing functions belonging to feedback objects.

		FeedbackDAO.java FeedbackDTO.java
06	user	This package contains classes that support getting user information via gmail and storing user information to support login with gmail and use in Authentication and Authorization in the system. UserDAO.java UserDTO.java
07	utils	This package contains classes to support other classes to perform purposes, such as getting user information via google mail, getting date and time,... NameDAO.java NamedDTO.java
08	image	This package contains DTO classes containing Value Objects and DAO classes containing functions belonging to image objects. ImageDAO.java ImageDTO.java
09	report	This package contains DTO classes containing Value Objects and DAO classes containing functions belonging to report objects. ReportDAO.java ReportDTO.java
10	status	This package contains DTO classes containing Value Objects and DAO classes containing functions belonging to status objects. StatusDTO.java StatusDAO.java

2. Database Schema

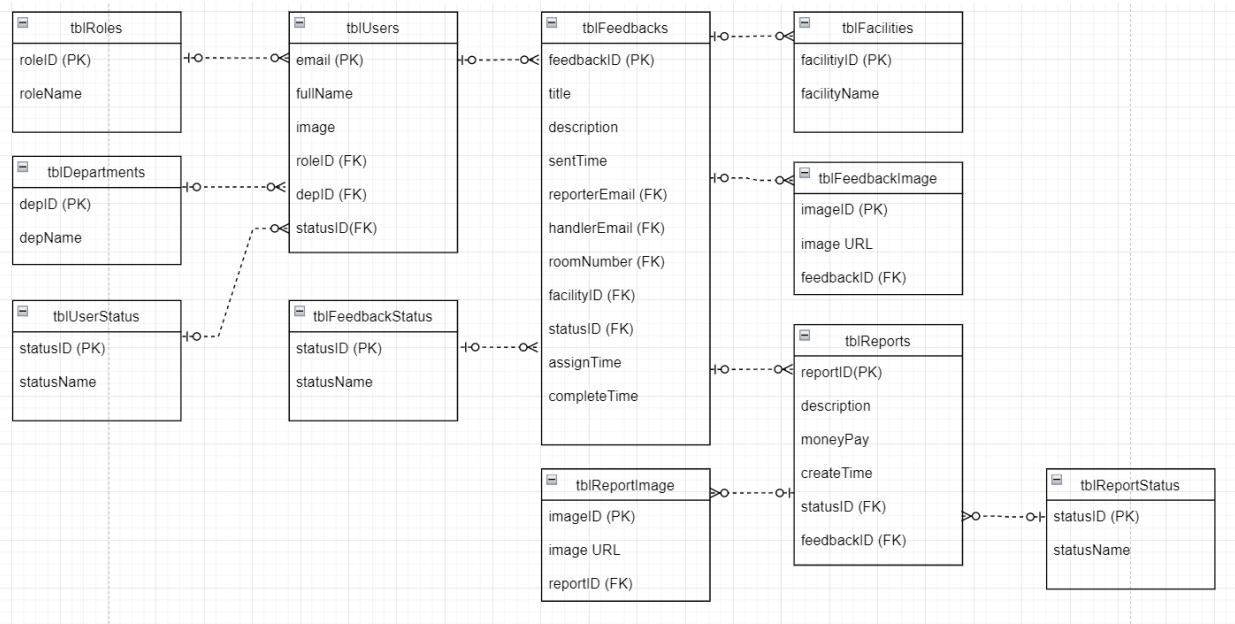


Table descriptions & package class naming conventions are as below

No	Table	Description
1	tblUsers	Contains the user's information

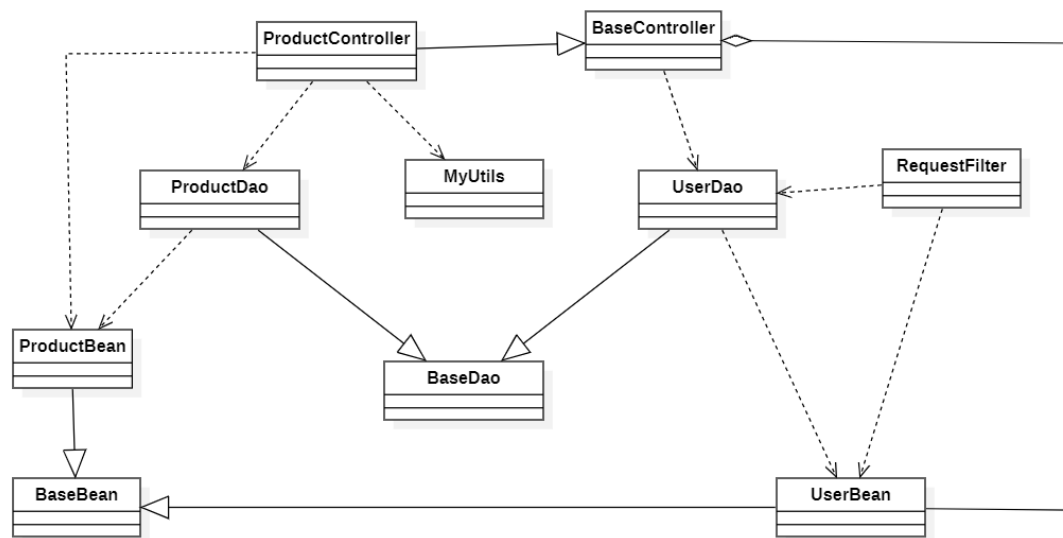
		<ul style="list-style-type: none"> - Primary keys: email - Foreign keys: [roleID,deplD,statusID]
2	tblUsersStatus	<p>Contains user's status</p> <ul style="list-style-type: none"> - Primary keys: statusID
3	tblRoles	<p>Contains the user's role</p> <ul style="list-style-type: none"> - Primary keys: roleID
4	tblDepartments	<p>Contains the user's Departments</p> <ul style="list-style-type: none"> - Primary keys: deplD
5	tblFeedbacks	<p>Contains the feedback's information</p> <ul style="list-style-type: none"> - Primary keys: feedbackID - Foreign keys: [senderEmail, handlerEmail,facilityID,statusID]
6	tblFacilities	<p>Contains the feedback's facilities</p> <ul style="list-style-type: none"> - Primary keys: facilityID
7	tblFeedbackImages	<p>Contains the image's information of feedbacks</p> <ul style="list-style-type: none"> - Primary keys: imageID - Foreign keys: [feedbackID]
8	tblFeedbackStatus	<p>Contains the feedback's status</p> <ul style="list-style-type: none"> - Primary keys: statusID
9	tblReports	<p>Contains the report's information</p> <ul style="list-style-type: none"> - Primary keys: reportID

		- Foreign keys: [statusID,feedbackID]
10	tblReportImages	Contains the image's information of report - Primary keys: imageID - Foreign keys: [reportID]
11	tblReportStatus	Contains the report's status - Primary keys: statusID

II. Code Designs

1. <Feature/Function Name1>

a. Class Diagram



b. Class Specifications

XYZ Class

[Provide the detailed description for the class methods]

No	Method	Description
01	<method name>	<Description of the method, including the inputs, outputs & internal method processing>

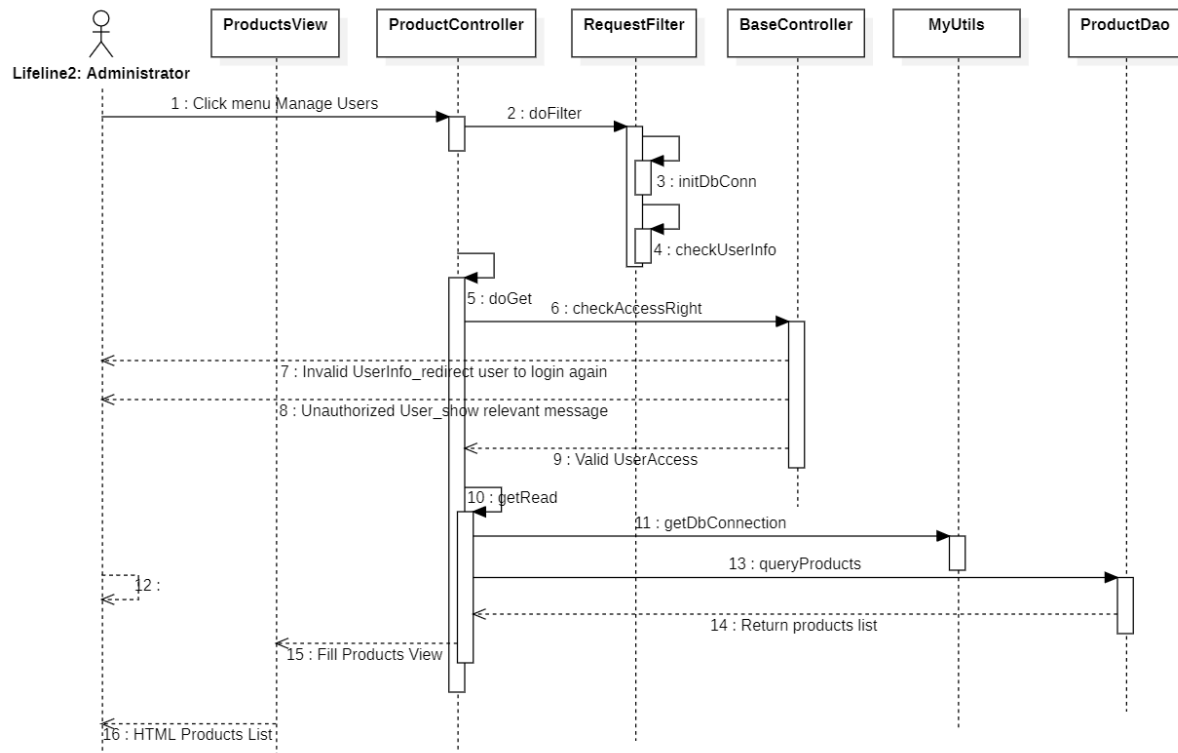
ABC Class

Class Methods

[Provide the detailed description for the class methods]

No	Method	Description
01	<method name>	<Description of the method, including the inputs, outputs & internal method processing>

c. Sequence Diagram(s)



d. Database queries

[Provide the detailed SQL (select, insert, update...) which are used in implementing the function/screen]

2. <Feature/Function Name2>

...

III. Database Tables

1. tblUsers

[Give some lines about the table here>>

[Table fields, in the form of table format as below]

#	Field name	Type	Size	Uniq ue	Not Null	PK/FK	Notes
1	email	nvarchar	100		Not null	PK	
2	fullName	nvarchar	100		Not null		
3	image	nvarchar	100		Not null		
4	roleID	nvarchar	10		Not null	FK	

5	depID	int			Allow	FK	
6	statusID	int			Not null	FK	

2. tblUserStatus

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	statusID	int			Not null	PK	
2	statusName	nvarchar	50		Not null		

3. tblRoles

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	roleID	nvarchar	10		Not null	PK	
2	roleName	nvarchar	50		Not null		

4. tblDepartments

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	depID	int			Not null	PK	
2	depName	nvarchar	50		Not null		

5. tblFeedbacks

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	feedbackID	nvarchar	50		Not null	PK	
2	senderEmail	nvarchar	100		Not null	FK	
3	title	nvarchar	150		Not null		
4	description	nvarchar	4000		Not null		

5	sentTime	datetime			Not null		
6	handlerEmail	nvarchar	100		Allow	FK	
7	roomNumber	int			Not null		
8	facilityID	nvarchar	10		Not null	FK	
9	statusID	int			Not null	FK	
10	deleteReason	nvarchar	100		Allow		
11	assignTime	datetime			Allow		
12	completeTime	datetime			Allow		

6. tblFeedbackImage

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	imageID	int			Not null	PK	
2	imageURL	nvarchar	200		Not null		
3	feedbackID	nvarchar	50		Not null	FK	

7. tblFeedbackStatus

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	statusID	int			Not null	PK	
2	statusName	nvarchar	50		Not null		

8. tblFacilities

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	facilityID	nvarchar	10		Not null	PK	
2	facilityName	nvarchar	20		Not null		

9. tblReports

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	reportID	nvarchar	100		Not null	PK	
2	statusID	int			Not null		
3	feedbackID	nvarchar	50		Not null	FK	
4	description	nvarchar	2000		Allow		
5	money	int			Not null		
6	createTime	datetime					

10. tblReports

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	imageID	int			Not null	PK	
2	imageURL	nvarchar	200		Not null		
3	reportID	nvarchar	100		Not null	FK	

11. tblReportStatus

#	Field name	Type	Size	Unique	Not Null	PK/FK	Notes
1	statusID	int			Not null	PK	
2	statusName	nvarchar	50		Not null		