

Olongapo City College of Computer Studies



### Chapter 2

#### **ANALYSIS PHASE**

### A. Requirement Analysis

This is the process of determining user expectations for the proposed system. This involves frequent communication with system users/respondents to determine specific feature expectations. The proponent conducted an interview from students, faculty and alumni who previously developed a study similar to proposal.

### **Summary of the Complete Requirements for the Proposed System:**

Following is a summary of the list of complete requirements defined for the "File Repository Management System":

- 1. The administrator, faculty and student should able to login to the system.
- 2. The system should be able to provide a user friendly interface and comprehensive logical flow of pages which consists of main menu, administrator menu, faculty menu and student menu.
- 3. There are three user account types based on their level of security namely admin, faculty, and lastly student.
- 4. The system should have a basic function of file management and operation namely add, edit, delete and search.
- 5. Every student must be currently enrolled in a current academic year per semester to be able to access the system. This will be done by the administrator.
- 6. The administrator should manage first the students based on the current enrollee master list. Their account will be activated and ready to use during laboratory activities.
- 7. The administrator should load the standard directory structure every subjects that have laboratory activities.
- 8. The student should have the following functions over their file management interface:
  - upload file function which limited only to file type and file sizes that is set by the administrator;



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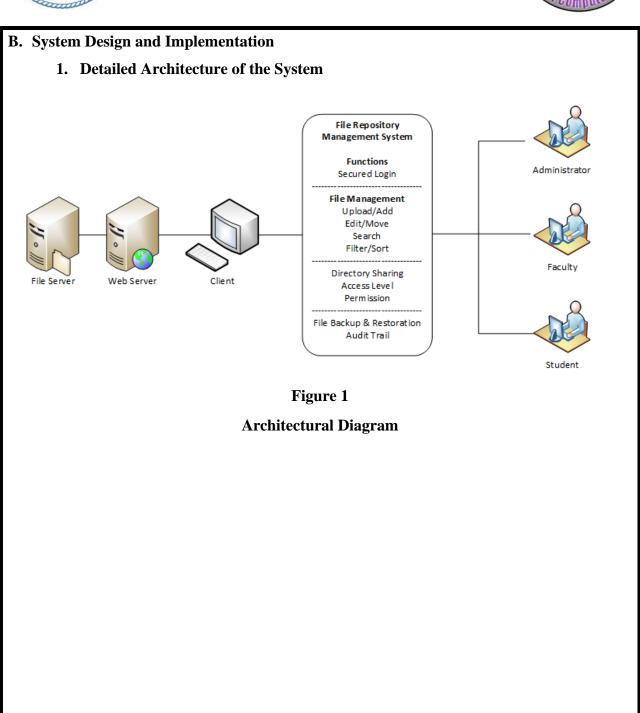


- move file function from one directory to another;
- file deletion and it will automatically remove from the server;
- file indexing and searching to be able find any files;
- file filtering and sorting;
- file restoration and automatic backup;
- 9. The faculty should have setting control over their directory or folder. These controls are directory lock, directory permission and directory sharing to the students. It also provides a task notification function from student to faculty in every activities they do.
- 10. All the file related documents, activities, laboratory and references that set by the administrator should save or store in the file server.





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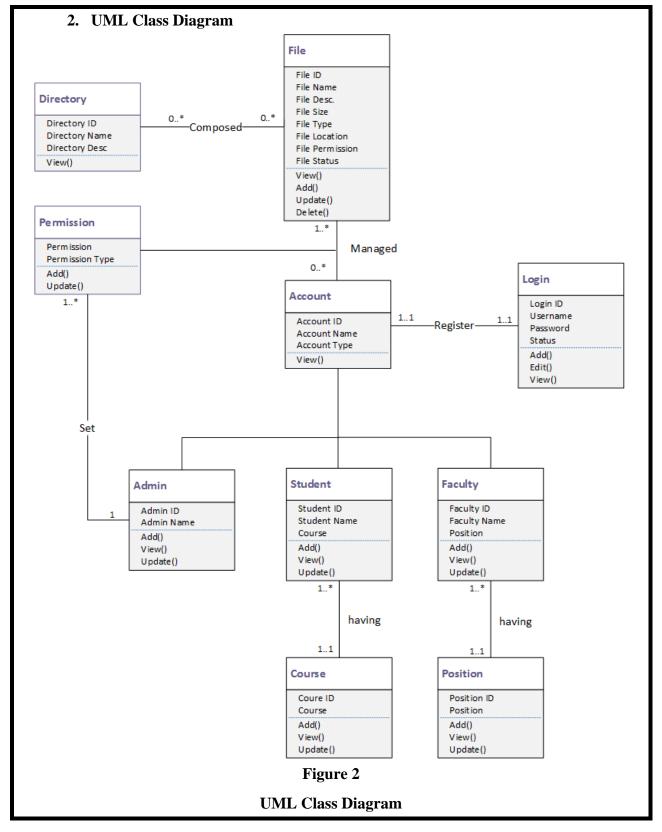




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### 3. Data Dictionary

# Column	Туре	Collation	Attributes	Null	Default	Extra
1 idAY	int(2)			No	None	AUTO_INCREMENT
2 cAcademicYear	varchar(50)	latin1_swedish_ci		Yes	NULL	
3 cSemester	varchar(255)	latin1_swedish_ci		Yes	NULL	

**Table 1: Academic Year** 

# Column	Туре	Collation	Attributes	Null	Default	Extra
1 idAccountType	int(2)			No	None	AUTO_INCREMENT
2 cAccount	varchar(30)	latin1_swedish_ci		Yes	NULL	

**Table 2: Account Type** 

# Column	Туре	Collation	Attributes	Null	Default	Extra
1 idCourse	int(2)			No	None	AUTO_INCREMENT
2 idDept	int(2)			Yes	NULL	
3 cCourseCode	varchar(20)	latin1_swedish_ci		Yes	NULL	
4 cCourseDesc	varchar(100)	latin1_swedish_ci		Yes	NULL	
5 cStatus	int(1)			Yes	NULL	

**Table 3: Course Information** 

# Column	Туре	Collation	Attributes	Null	Default	Extra
1 idDept	int(2)			No	None	AUTO_INCREMENT
2 cDeptCode	varchar(10)	latin1_swedish_ci		Yes	NULL	
3 cDeptDesc	varchar(100)	latin1_swedish_ci		Yes	NULL	
4 cStatus	int(1)			Yes	NULL	

**Table 4: Department Information** 



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# Column	Туре	Collation	Attributes	Null	Default	Extra
1 idDirectory	int(3)			No	None	AUTO_INCREMENT
2 cDirectoryName	varchar(30)	latin1_swedish_ci		Yes	NULL	
3 cDirectoryDesc	varchar(100)	latin1_swedish_ci		Yes	NULL	
4 cParent	int(3)			Yes	NULL	
5 cChild	int(3)			Yes	NULL	
6 cStatus	int(1)			Yes	NULL	
7 cDate	datetime			Yes	NULL	

### **Table 5: Directory Information**

#	Column	Туре	Collation	Attributes	Null	Default
1	idFaculty	int(4)			Yes	NULL
2	idPosition	int(2)			Yes	NULL
3	cLastName	varchar(50)	latin1_swedish_ci		Yes	NULL
4	cFirstName	varchar(50)	latin1_swedish_ci		Yes	NULL
5	cMiddleName	varchar(50)	latin1_swedish_ci		Yes	NULL
6	cExtName	varchar(20)	latin1_swedish_ci		Yes	NULL
7	cDOB	date			Yes	NULL
8	cAddress	varchar(100)	latin1_swedish_ci		Yes	NULL
9	cStatus	int(1)			Yes	NULL

**Table 6: Faculty Information** 

# Column	Туре	Collation	Attributes	Null	Default
1 idFiles	varchar(14)	latin1_swedish_ci		No	None
2 idDirectory	int(2)			Yes	NULL
3 cFileName	varchar(50)	latin1_swedish_ci		Yes	NULL
4 cFileDesc	varchar(100)	latin1_swedish_ci		Yes	NULL
5 cFileType	varchar(20)	latin1_swedish_ci		Yes	NULL
6 cFileSize	decimal(2,0)			Yes	NULL
7 cUploadBy	int(8)			Yes	NULL
8 dateUploaded	datetime			Yes	NULL

**Table 7: File Information** 



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# Column	Туре	Collation	Attributes	Null	Default	Extra
1 <u>idLogin</u>	int(2)			No	None	AUTO_INCREMENT
2 cUserName	varchar(25)	latin1_swedish_ci		Yes	NULL	
3 cPassword	varchar(32)	latin1_swedish_ci		Yes	NULL	
4 idAccount	int(8)			Yes	NULL	
5 cStatus	int(1)			Yes	NULL	

**Table 8: Login Information** 

#	Column	Туре	Collation	Attributes	Null	Default	Extra
1	idPosition	int(2)			No	None	AUTO_INCREMENT
2	cPosition	varchar(30)	latin1_swedish_ci		Yes	NULL	

**Table 9: Position Information** 

# Column	Type	Collation	Attributes	Null	Default	Extra
1 idRoot	int(11)			No	None	AUTO_INCREMENT
2 idAY	int(2)			Yes	NULL	
3 idDirectory	int(4)			Yes	NULL	

**Table 10: Root Directory** 

#	Column	Туре	Collation	Attributes	Null	Default	Extra
1	<u>idStudent</u>	int(8)			No	None	
2	cLastName	varchar(50)	latin1_swedish_ci		Yes	NULL	
3	cFirstName	varchar(50)	latin1_swedish_ci		Yes	NULL	
4	cMiddleName	varchar(50)	latin1_swedish_ci		Yes	NULL	
5	cExtName	varchar(10)	latin1_swedish_ci		Yes	NULL	
6	idCourse	int(2)			Yes	NULL	
7	cDOB	date			Yes	NULL	
8	cAddress	varchar(100)	latin1_swedish_ci		Yes	NULL	
9	cStatus	int(1)			Yes	NULL	

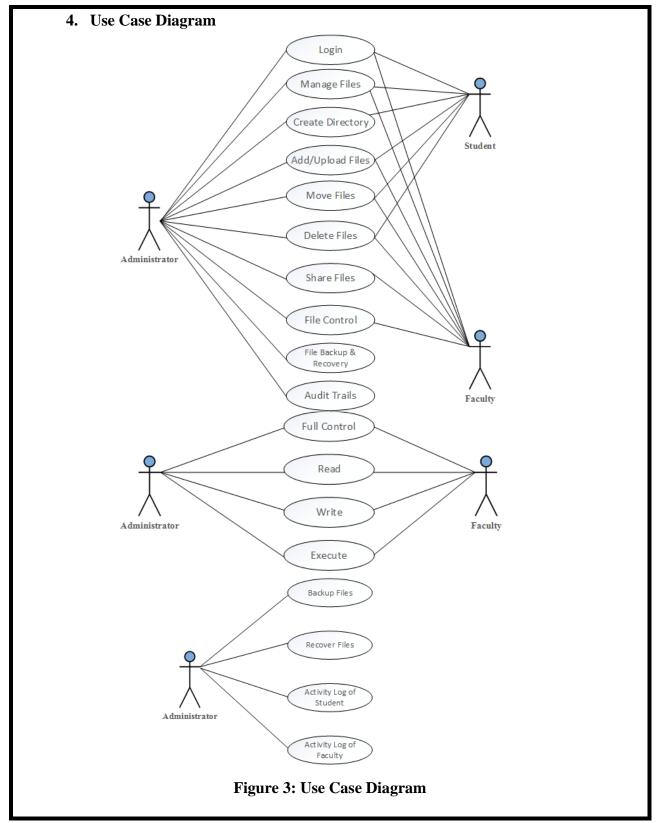
**Table 11: Student Information** 



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### 5. Use Case Diagram Descriptions

Use Case ID:	001
Use Case Name:	Manage Files
Actors:	Administrator, Faculty and Student
Description:	The process allows the actors to manage their files.
Pre-Conditions:	The standard directory structure exist in database
Post- Conditions:	The actors can manage their directory and files
Normal Flow:	<ol> <li>They can view the directory tree of their files.</li> <li>They can see the operation of their files</li> </ol>

### **Table 12 Manage Files**

Use Case ID:	002
Use Case Name:	Create Directory
Actors:	Administrator, Faculty and Student
Description:	The process allows the actors to create their own directory
Pre-Conditions:	The new directory does not exist in the database and file server.
Post- Conditions:	The system will save the new directory information and allow them to see it.
Normal Flow:	<ol> <li>The system will generate new id for directory.</li> <li>The actors will enter the details.</li> </ol>

**Table 13 Create Directory** 



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Use Case ID:	003
Use Case Name:	Add / Upload Files
Actors:	Administrator, Faculty and Student
Description:	The process allows the actors to add or upload their files.
Pre-Conditions:	The new file does not exist in the database and file server.
Post- Conditions:	The system will save the new file information and allow them to see it.
Normal Flow:	<ol> <li>The system will generate new id for files.</li> <li>The actors will enter the details.</li> </ol>

### **Table 14 Add/Upload Files**

Use Case ID:	004
Use Case Name:	Move Files
Actors:	Administrator, Faculty and Student
Description:	The process allows the actors to move their files to desired directory.
Pre-Conditions:	The files exist in the database and file server.
Post- Conditions:	The system will save the new file location and allow them to see it.
Normal Flow:	1. The actors will enter the details.

**Table 15 Move Files** 



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Use Case ID:	005
Use Case Name:	Delete Files
Actors:	Administrator, Faculty and Student
Description:	The process allows the actors to delete or remove their files.
Pre-Conditions:	The new files exist in the database and file server.
Post- Conditions:	The system will remove the file information and create a log file for audit trail.
Normal Flow:	1. The administrator will see the deleted files in event log

**Table 16 Delete Files**