



جامعة الامم المتحدة
AHRAM CANADIAN UNIVERSITY

Faculty of Computer Science & IT

Course name: Software Engineering

Exam number: Semester work Project

Course Code: -

Exam Date: Summer 2013

Lecturer: Dr. Ahmed ElShafee

Time Allowed: -

Name: _____

ID: _____

Kindly deliver your answer (hardcopy) before Monday 12/08/2013

“ABC” is a worldwide company whose branches are situated all over the world. “ABC” needs an online virtual drive for storage of its important data over the web so that data can be accessible at any branch. They face a lot of problems due to distributed data so they demand an online virtual drive that is web based application which can manage their data problems. Online Virtual Drive will be a Web based application that will help users to store their important data on an online virtual disk drive that will act as similar to our hard disk. All the directories and files would be viewed as similar as we are viewing them on our personal computer’s hard drive. There will be two types of users other than the administrator. Anonymous User and Registered User.

Online Virtual Drive application will have a user-friendly interface. It will fulfill all the user and business requirements of the ABC Company. It will also provide required reports efficiently to the management and will help them in decision making. Anonymous user can access to Help Section, Tell a Friend Section, FAQ Section, About Us Section, Feedback Section and Registration or Sign Up page.

An anonymous user will fill the whole Registration form and will submit it to the administrator. Administrator of the system will have the right to approve or disapprove the user. When Administrator will approve the space requested by Anonymous user and verify all the information provided by Anonymous user in his/her registration form then a confirmation email will be sent to that Anonymous user which will become Registered User.

Registered User on approval by administrator first has to login, to use the various functionalities of the system. User can upload files, delete, move and

copy/paste files in directories/folders on system. User can make as many directories on system till his/her quota of space is not exceeded.

Part 1:

Answer the following questions by considering the above scenario.

Question No. 1

What are the business requirements of given Online Virtual Drive System?

Your answer should not exceed more than three lines.

Question No. 2

List down the functional requirements of given Online Virtual Drive System.

Question No. 3

List down the non-functional requirements of given Online Virtual Drive System.

Part II:

By Considering the above scenario you are required to draw Object Model for Online Virtual Drive system. UML Object Diagram should be comprehensive and must contain:

1. All possible objects
2. Possible attributes for each object
3. Operations of each object
4. Relationships among different objects for example Inheritance, Aggregation, composition, Association etc.