

IS Project Specification

Module	Advanced Java Programming		
Code	MLAJ175-01	Project Number	1
Project Title	Forum	Marks	100

Instructions

- All work, including draft notes, must be submitted with the completed project.
- The pass mark is 60%.
- 10% will be deducted for this project if it is handed back for resubmission.
- 20% will be deducted if this project is handed back for resubmission due to plagiarism.

Requirements

- The module study guide may be referenced.
- Submission consists of a neatly formatted document containing the specified diagrams and documentation.
- Your name, student number, project number and date of submission must be included on the document's cover page.
- You may use the tool of your choice to create the UML diagrams.

Scenario

Develop a distributed application that can be used as a forum for various topics. The interface will be a website only. Users must be able to register with personal information. Then users must be able to create topics, post comments and post replies to other user's comments. Comments and replies should be viewable by all users.

Website

This part must be written in JSPs and Servlets, and should present the user with interfaces to satisfy the following needs:

- The user must be able to sign up by providing his or her email address and a password, and other personal information. If his or her password is forgotten, he or she must be able to securely change his or her password.
- A logon facility is required. In case the user has forgotten his or her password, they must have the option to change it, as long as they can prove that they are the original user.
- Once the user has logged on, a facility to view topics and comments must be provided. If a topic is selected, its relevant details and the comments must be displayed, including any replies that were posted.
- The user must be able to post a comment himself or herself, or post a reply to another user's comment.
- The user must be able to change their personal information.
- A logoff facility is required for the user to end their session.

Database

The database may be created in SQL Server or MS Access. The following information is required to be stored for use in the web service and website:

- User information provided when a user registers, e.g. email address, password, etc.
- Topic information, e.g. title, description, user, etc.
- Comment information, e.g. topic, user, text, etc.
- Reply information, e.g. comment, user, text, etc.

Web service

The following functionality must be made available through the Web service:

- User information additions/changes.
- Topic information additions.
- Comment information additions.
- Any other functionality required by the website.

Each time a comment or reply is posted, write the applicable information to a log file.