z
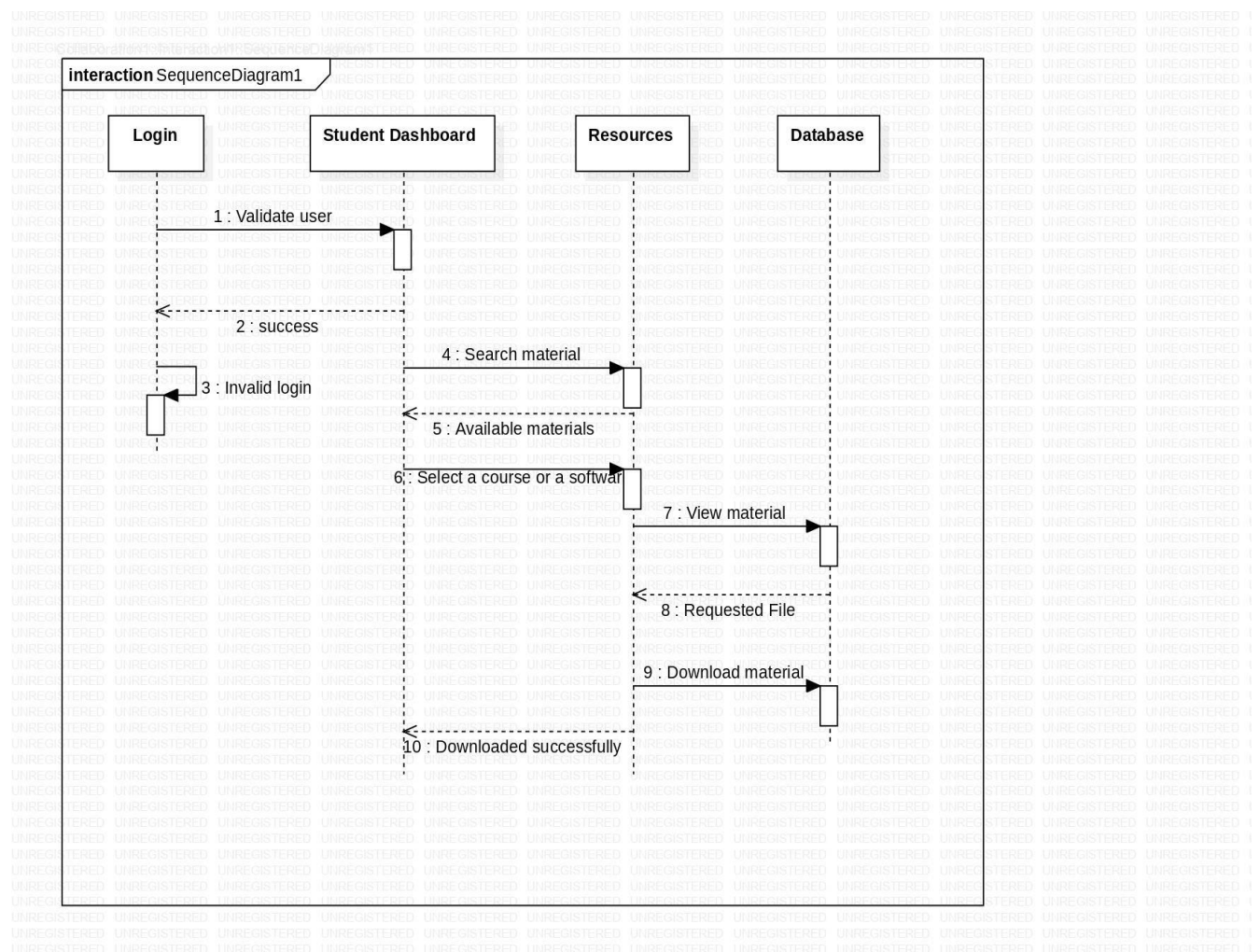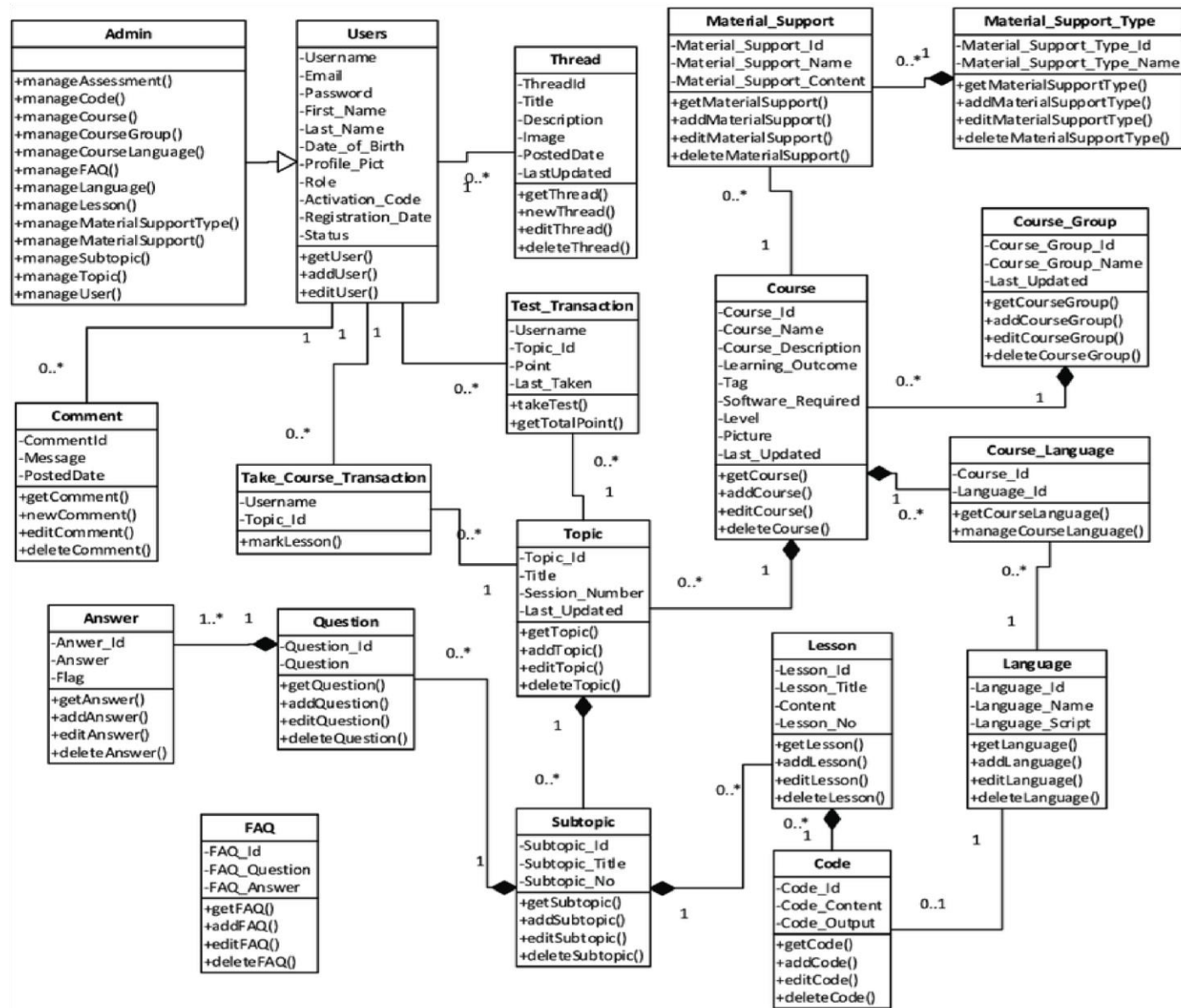
SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

E-RESOURCE PROJECT
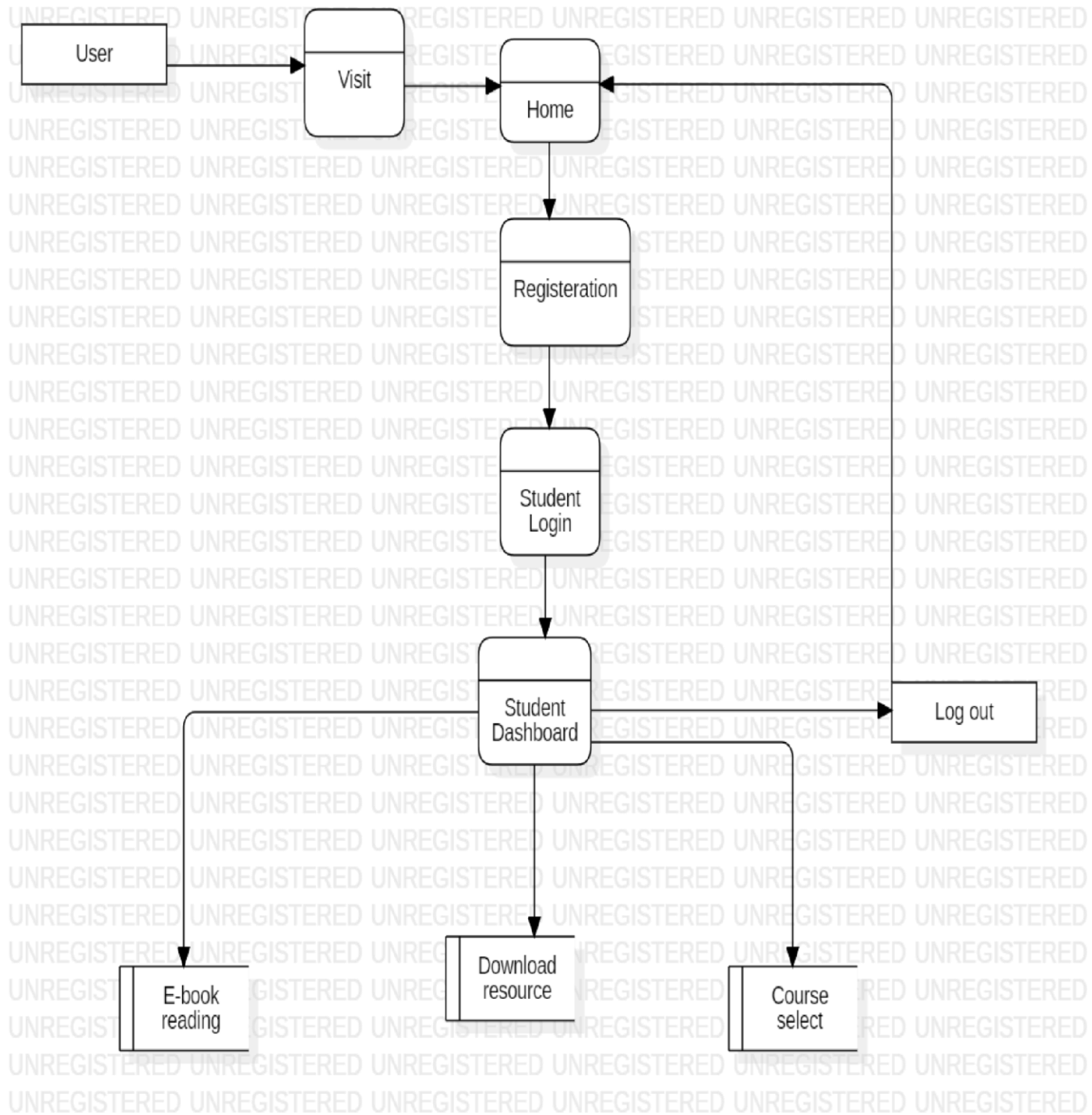
RAUNAK RAJ (*RA1811003010581*) NIKHIL RAJ(*RA1811003010575)* AKANKSHYA NAYAK (*RA1811003010589)*

SEQUENCE, CLASS, DATAFLOW AND ACTIVITY DIAGRAM

z

Admin

+manageAssessment()
+manageCode()
+manageCourse()
+manageCourseGroup()
+manageCourseLanguage()
+manageFAQ()
+manageLanguage()
+manageLesson()
+manageMaterialSupportType()
+manageMaterialSupport()
+manageSubtopic()
+manageTopic()
+manageUser()

Users

-Username
-Email
-Password
-First_Name
-Last_Name
-Date_of_Birth
-Profile_Pict
-Role
-Activation_Code
-Registration_Date
-Status

+getUser()
+addUser()
+editUser()

Thread

-ThreadId
-Title
-Description
-Image
-PostedDate
-LastUpdated

+getThread()
+newThread()
+editThread()
+deleteThread()

Material_Support

-Material_Support_Id
-Material_Support_Name
-Material_Support_Content

+getMaterialSupport()
+addMaterialSupport()
+editMaterialSupport()
+deleteMaterialSupport()

Material_Support_Type

-Material_Support_Type_Id
-Material_Support_Type_Name

+getMaterialSupportType()
+addMaterialSupportType()
+editMaterialSupportType()
+deleteMaterialSupportType()

Course_Group

-Course_Group_Id
-Course_Group_Name
-Last_Updated

+getCourseGroup()
+addCourseGroup()
+editCourseGroup()
+deleteCourseGroup()

Course

-Course_Id
-Course_Name
-Course_Description
-Learning_Outcome
-Tag
-Software_Required
-Level
-Picture
-Last_Updated

+getCourse()
+addCourse()
+editCourse()
+deleteCourse()

Test_Transaction

-Username
-Topic_Id
-Point
-Last_Taken

+takeTest()
+getTotalPoint()

Comment

-CommentId
-Message
-PostedDate

+getComment()
+newComment()
+editComment()
+deleteComment()

Take_Course_Transaction

-Username
-Topic_Id

+markLesson()

Course_Language

-Course_Id
-Language_Id

+getCourseLanguage()
+manageCourseLanguage()

Topic

-Topic_Id
-Title
-Session_Number
-Last_Updated

+getTopic()
+addTopic()
+editTopic()
+deleteTopic()

Answer

-Anwer_Id
-Answer
-Flag

+getAnswer()
+addAnswer()
+editAnswer()
+deleteAnswer()

Question

-Question_Id
-Question

+getQuestion()
+addQuestion()
+editQuestion()
+deleteQuestion()

Lesson

-Lesson_Id
-Lesson_Title
-Content
-Lesson_No

+getLesson()
+addLesson()
+editLesson()
+deleteLesson()

Language

-Language_Id
-Language_Name
-Language_Script

+getLanguage()
+addLanguage()
+editLanguage()
+deleteLanguage()

FAQ

-FAQ_Id
-FAQ_Question
-FAQ_Answer

+getFAQ()
+addFAQ()
+editFAQ()
+deleteFAQ()

Subtopic

-Subtopic_Id
-Subtopic_Title
-Subtopic_No

+getSubtopic()
+addSubtopic()
+editSubtopic()
+deleteSubtopic()

Code

-Code_Id
-Code_Content
-Code_Output

+getCode()
+addCode()
+editCode()
+deleteCode()

Multiplicities: 0..* 1 0..*1 0..* 1 0..* 1 0..* 1 1 1 0..* 1..* 1 0..1 0..*

z

DFD

z

User DFD

z

Activity1 :ActivityDiagram1

●

Re-enter credentials

Log in

Correct log in id and password?

No → **Invalid login id and password**

Yes

User Dashboard

Search for materials

Browse courses   **Browse softwares**   **Browse e-books**

Downloaded resources

Yes

Continue browsing?

No → **Log out** → ◉