

Department Portfolio System

Software Requirements Specifications Document

Deadline: Deploy by Thursday 2nd March 11:59PM

Grade: 6% + 2% bonus

II. Change history

Change	Date
Document created	Lecture 2
Stakeholders and usecases identified	Lecture 3
Detailed requirements identified	Lab session 3
Sequence diagrams added	Lecture 4 , lab session 4
Class diagram added	Week 4
Update requirements for deadline ** deleted requirements are now striketrough** They will now count for a 2% bonus	Thursday 16 th Feb.

1.Problem Statement

- You are asked to develop a department portfolio for final year MET and BI students.

Each student will be able to register to this website and create a portfolio. A portfolio contains the student name, profile picture and several works by the student. Works can be screenshots, links to websites or code repositories. A client visiting the portfolio will view summary of student portfolios and can then choose to view the detailed portfolio of one student. Clients who are logged in can rate a student's work. In addition, a client can search the portfolio to view relevant works.

2. User Stories

User Stories

As a ^{student}~~user~~, I can register, so that I can create an account.

As a student, I can upload my work so that it can be viewed.

As a client, I can view the portfolio of any user.

As a student, I can login so that I can access my portfolio.

As a student, I can upload my work in the form of a link, screenshot, or on a repo.

3. Usecase diagrams

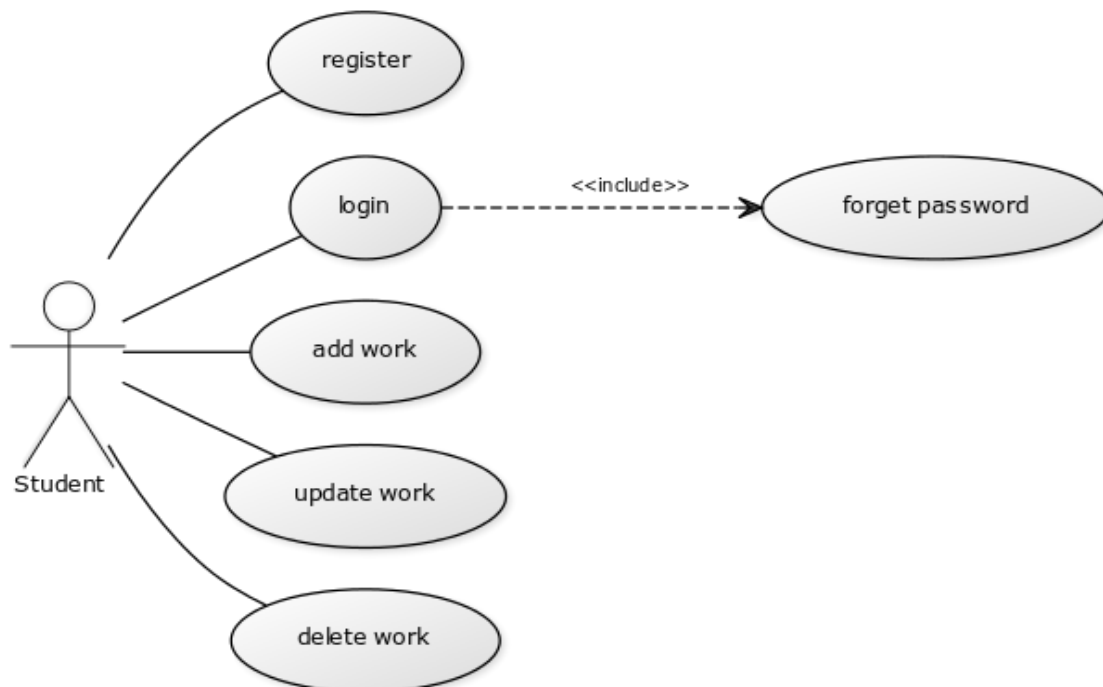
3.1 Student

3.1.1 Register

3.1.2 Login / ~~Forgot password~~

3.1.3 Create work

3.1.4 ~~Update, delete work (CRUD)~~

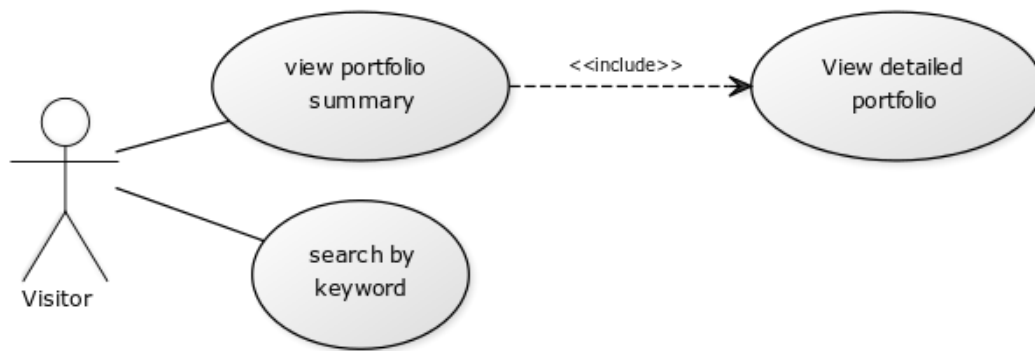


3.2 Visitor

3.2.1 View portfolio summary

~~3.2.2 View detailed portfolio~~

~~3.2.3 Search: keyword~~



4.Detailed Requirements

4.1 Student Registers to portfolio system

Actors	Student
Pre-conditions	Student has a valid GUC ID and belongs to either MET or BI
Description	Student chooses the registration option. Student is then prompted to fill in his username (mandatory), password (mandatory). The password must include 8 characters at least including a digit and a special character. Student presses register.
Guarantee	Student is registered to the system and his/her record is added to the database accordingly.
Data	Student username, password.
Trigger	Student chooses the register option.
Response	Student is prompted with a confirmation message after successful registration.
Exceptions	<ul style="list-style-type: none">- Student does not provide username or password.— Username already exists, a relevant error message is displayed.- Password does not meet the above listed requirements, a relevant error message is displayed.
Comments	

4.2 Student logs in to portfolio system

Actors	Student
Pre-conditions	Student is registered to the system
Description	Student chooses the login option. Student is then prompted to fill in his username (mandatory), password (mandatory) and presses login.
Guarantee	Student is logged in to the system or a relevant error message is displayed.
Data	Student username, password.
Trigger	Student chooses the login option.
Response	A successful login confirmation is displayed.
Exceptions	<ul style="list-style-type: none">— Student does not provide username or password.- Password does not match provided username, a relevant error message is displayed. Login is unsuccessful.
Comments	

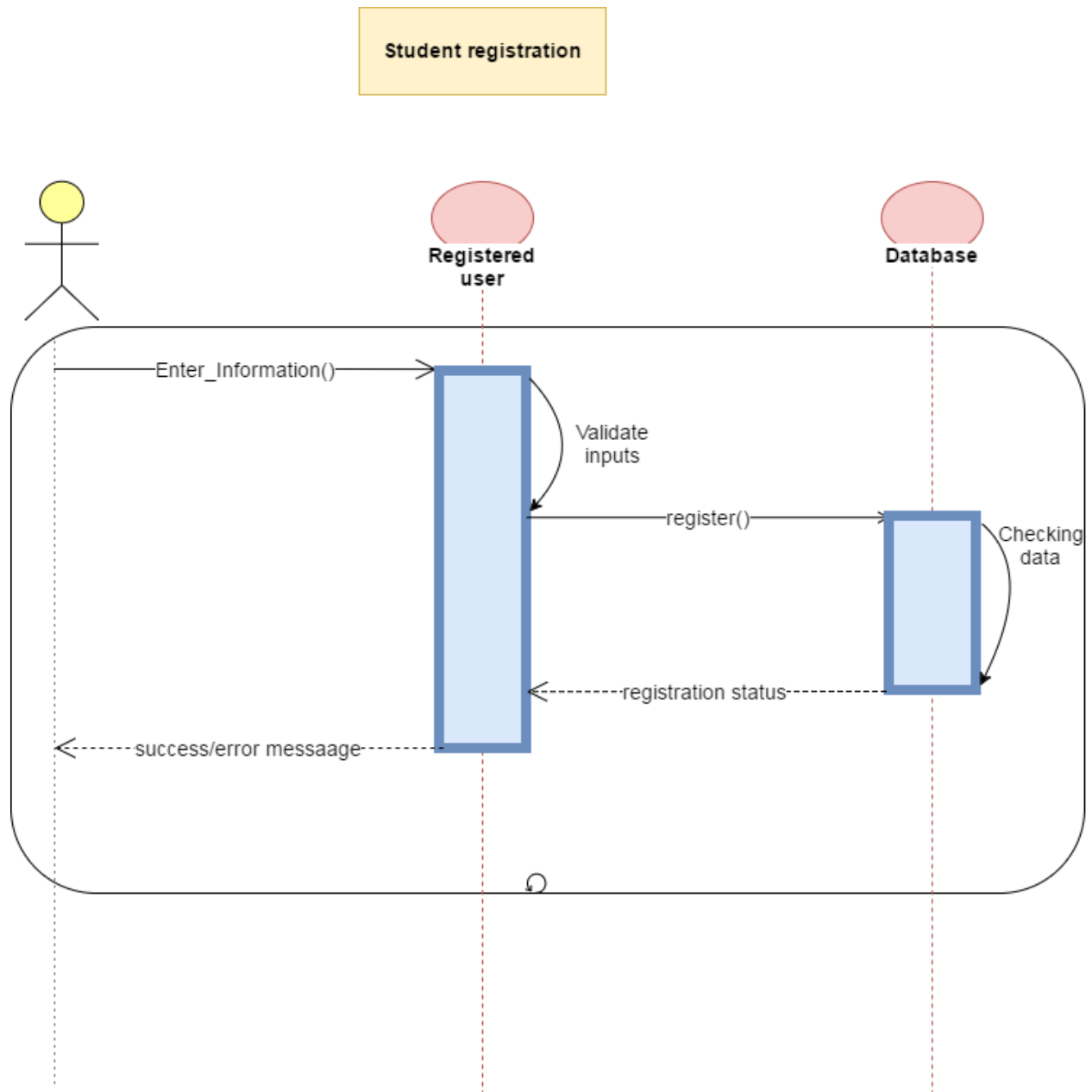
4.3 Student creates portfolio

Actors	Student
Pre-conditions	Student is logged into the system.
Description	Student is able to create a portfolio that contains his name (mandatory), profile picture (optional), and links or screen shots to his works. A minimum of 1 work is needed to create a portfolio successfully.
Guarantee	A new portfolio is created. All mandatory data was provided by the user.
Data	Portfolio attributes: Student name, profile picture, list of one or more works.
Trigger	Student chooses to create a portfolio.
Response	Confirmation message: "Your portfolio was successfully created".
Exceptions	<ul style="list-style-type: none">— Student does not provide mandatory information. Error message is displayed. No portfolio created.- Student has a portfolio already. Error message is displayed. No portfolio created.
Comments	

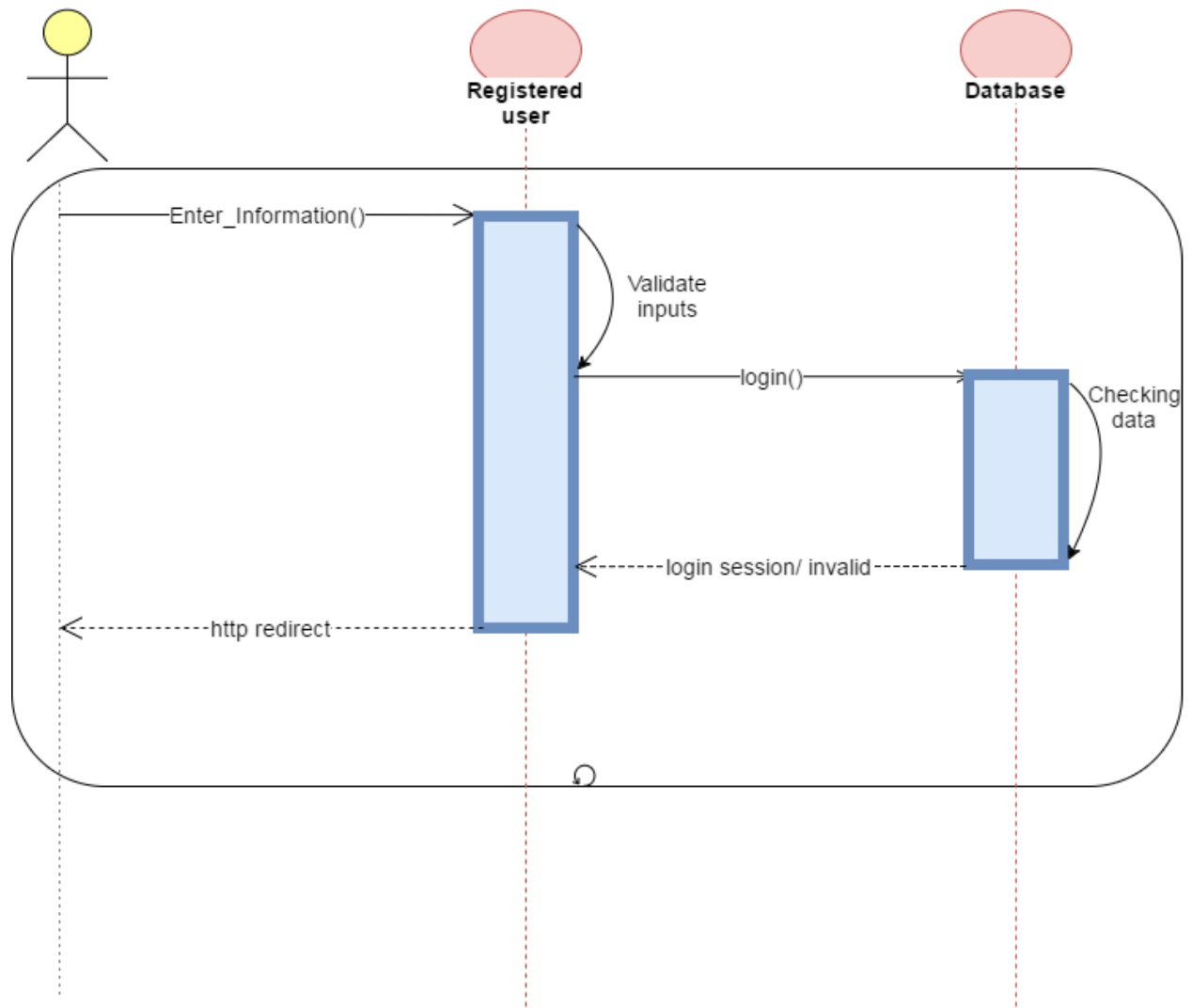
4.4 View portfolio Summary

Actors	Client – visitor
Pre-conditions	none
Description	A client or a visitor chooses to view portfolios summary. A summary of student portfolios is displayed. 10 portfolio summaries are displayed per page. Each summary includes the student name, profile picture, a description and a list of works. A maximum of 2 works can be displayed for each student, these are the works with the highest rating. An index of available pages is displayed at the bottom of the page.
Guarantee	The view-summary page is displayed
Data	Student portfolios summary
Trigger	User command issued by client or visitor
Response	Portfolio summary is retrieved and displayed
Exceptions	<ul style="list-style-type: none">- No portfolios are available. An appropriate message is displayed- Unrated works are sorted at the end of the summary
Comments	Both client and visitor have the same view, although a visitor is not logged in.

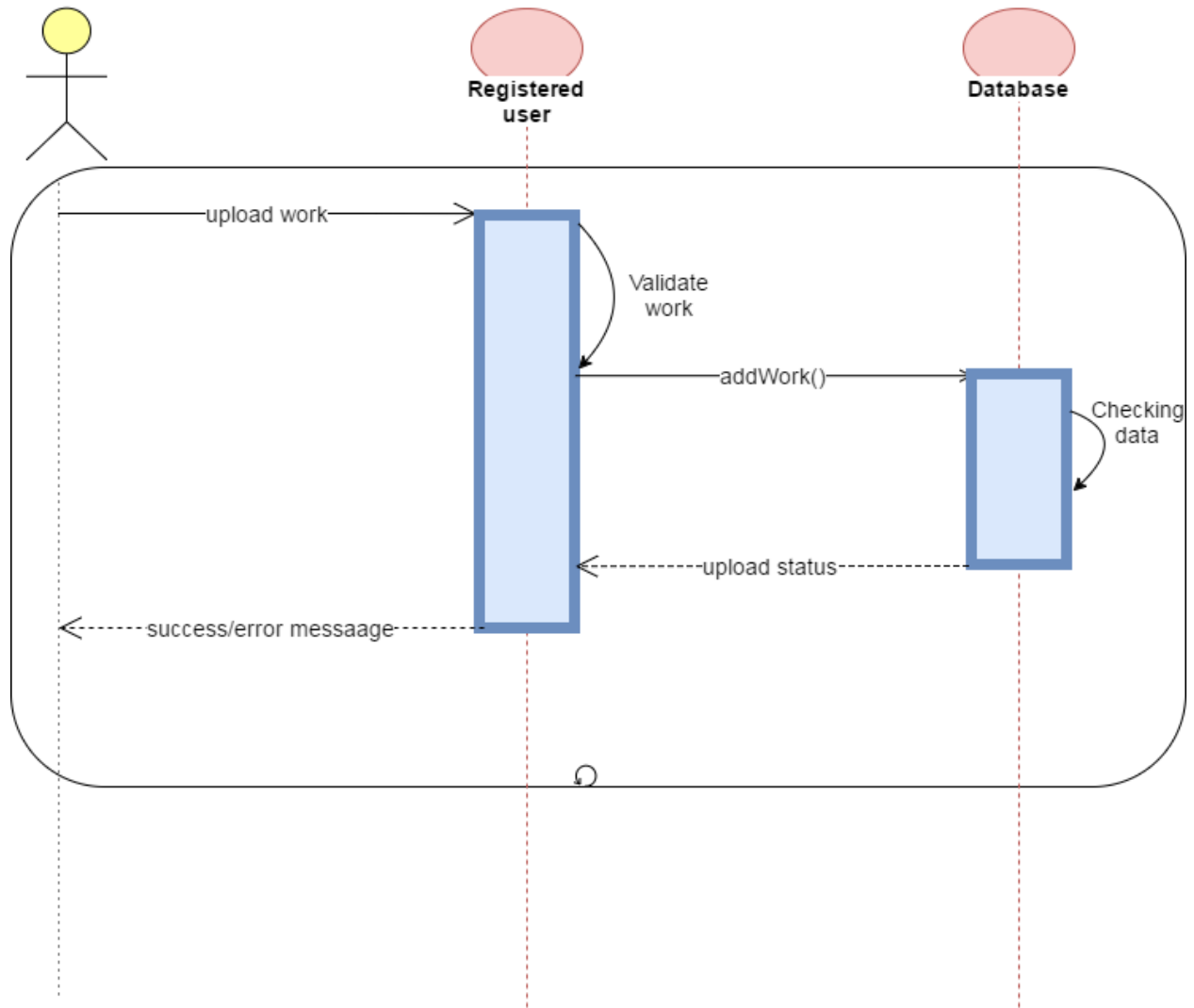
5. Sequence diagrams



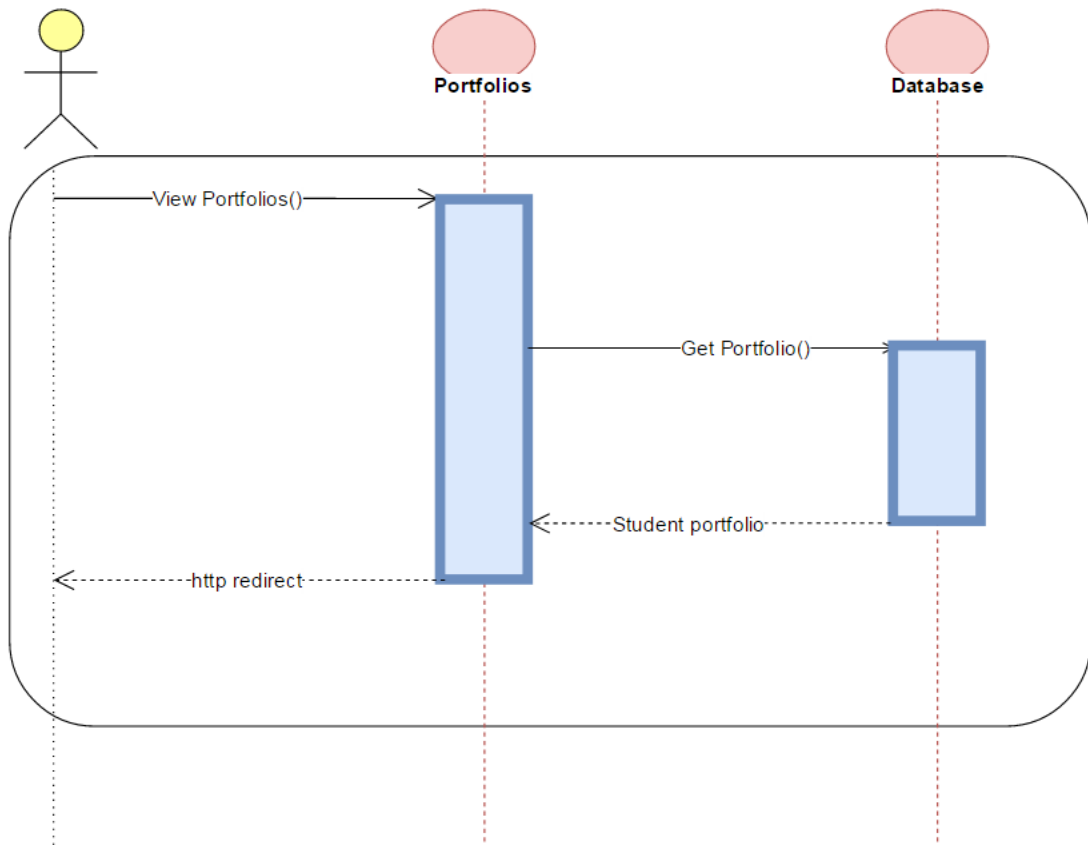
Student login



Student adding work
sequence diagram



client view
portfolio
summary



6. Class diagrams

