
Requirements Specifications

InPress – Group 3

Liu Wenbo (0970709)

Justin Kan (0843763)

Abdul Hadi Muhammad (0951862)

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Change History

The following table shows the change history for this test plan document.

Version	Date	Author	Comments
—	—	AHM, WL, JK	Original content.
0	October 10, 2013	AHM, WL, JK	Initial check in
1	February 25, 2014	AHM, WL, JK	Revision 0 Changes
2	April 11, 2014	AHM, WL, JK	- Modified the structure of the document (added table of contents, change history, figure tables, etc) - Added some requirements missing from initial check-in - Figures and Diagrams were redesigned - Non-Functional and Functional Requirements were revisited

Table 1: Change History

This document follows the Volere Requirements Specification Template. This template may be found at <http://www.volere.co.uk/pdf%20files/templateArchive.zip>.

Project Drivers

THE PURPOSE OF THE PROJECT

The User Business or Background of the Project Effort

Design a web interface called “InPress”, which allows students in various universities to respond to real-time questions posted by their instructor using any internet-enabled device (i.e. iPads, iPhones, Android Phones/Tablets, PCs, Macs).

Goals of the project

There are two goals in this project:

- Provide students with a free classroom interaction tool that will allow them to participate in classroom activities
- Allow students to learn more efficiently

THE CLIENT, THE CUSTOMER AND OTHER STAKEHOLDERS

The Client

Kevin Dunn, Chemical Engineering

The Customer

Customers include colleges/universities, instructors and students.

USERS OF THE PRODUCT

The Hands-On Users of the Product

- Students and Instructors will be connecting to the web interface in order to interact with the various features.
- System Administrators will need to configure and setup the software environment through a web interface.

Priorities Assigned to Users

- Key Users: Instructor and Students
- Secondary Users: System Administrators

User Participation

- Students will answer questions posted by their instructor
- Instructors will be able to populate the system with questions
- Instructors will be able to analyze data received through student interaction

Maintenance Users and Service Technicians

Maintenance users will be mainly System Administrators at the college/university, and Software Developers at InPress. System Administrators at the college/university will have to deal with any kind of operating discrepancy in the environment where the code is hosted.

Any other problems (i.e. a bug in the code) will first need diagnosing by the System Administrators, and if need-be a service ticket must be opened against the Development team at InPress.

Project Constraints

MANDATED CONSTRAINTS

Solution Constraints

Description: InPress is a web-based system

Rationale: The InPress software will only be accessible via an Internet enabled device

Fit Criterion: Users need to use the Internet to communicate with InPress

Implementation Environment of the Current System

The environment in which this system is going to be hosted is McMaster University. We will be hosting it on a departmental server (inpress.mcmaster.ca) in the Engineering Faculty. This software will be portable to other universities, but the software will have to be hosted internal in that university.

Partner or Collaborative Applications

- Kevin Dunn, Chemical Engineering and Client
- Chemical Engineering System Administrators
- Dr. Rong Zheng, CAS Supervisor
- Dr. Spencer Smith, CAS Supervisor

Off-the-Shelf Software

- **i-Clicker®:** Electronic devices that allows users to interact with the host through five buttons (A, B, C, D, E). The product supports multiple-choice only.
- Similar products already exist in the market (i.e. iClicker®). Most of the products only allow students to interact with the instructor, and do not have much functionality.

Anticipated Workplace Environment

Colleges and Universities

Schedule Constraints

All deliverables must be done within the deadline. The expected completed date is April 30/2014.

Budget Constraints

N/A

NAMING CONVENTIONS AND DEFINITIONS

Definitions of all Terms

Students: People currently enrolled in an undergraduate or graduate program at a University/College

Instructor: An individual teaching an undergraduate/graduate course

System Administrator: Technical staff dealing with computers in the University/College

RELEVANT FACTS AND ASSUMPTIONS

Facts

- Current popular implementations (i.e. iClicker) allow students to answer multiple-choice questions only
- Current popular implementations (i.e. iClicker) require physical hardware

Assumptions

- Hardware will be self-provided by the customer, and hardware failure will be addressed by on-site university IT personnel.
- We assume that the users have Internet access whenever they want to use the product
- Assume that students have some minimal knowledge (i.e. know the English language, know their Student No., etc.)

Functional Requirements

THE SCOPE OF THE WORK

The Current Situation

- The software (web application) will require students and instructors to login, so that their responses will be saved
- The saved response can be used for data analysis (i.e. Number of Correct Responses)
- Students can use the web-application to respond to Instructor's questions
- Easy setup for instructors by entering the questions before the lecture
- Students can review their answers, and the respective solutions after lecture

The Context of the Work

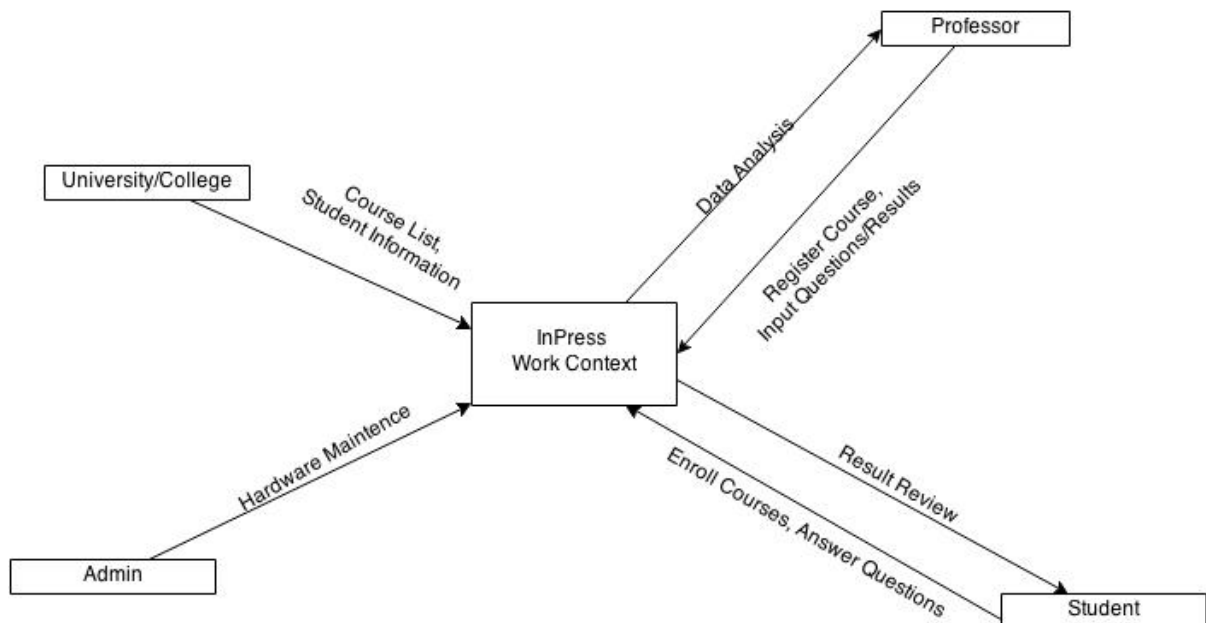


Figure 1: Context of the Work

Work Partitioning

R#	Event Name	Input and Output	Summary
R1	Create an Instructor Account	Instructor's Credentials (IN) Created Account (OUT)	The system administrator will need to create an account for each instructor using InPress. They will need to provide InPress with basic information about the instructor, and will have the opportunity to create a unique username and password.
R2	Login as an Instructor	Instructor's Credential (IN) Instructor's Personalized Webpage (OUT)	Using the username and password provided by the System Administrator, instructors would be able to login and see their personalized page.
R3	Login as a Student	Student's Credential (IN) Student's Personalized Webpage (OUT)	Students will be able to login to InPress via their student number. Upon login, they will see their personalized webpage with courses they are enrolled in.
R4	Create a Course	Instructor's Credentials (IN) Course Information (IN) Created Course (OUT)	Courses can only be created through an instructor's account. Once logged in, instructors may create a course by selecting the appropriate GUI button. Instructors will need to provide the web interface with basic course information (i.e. course name, course code, class list, etc.). Once created, the course will appear on the instructor's personalized webpage.

R5	Delete a Course	Instructor's Credentials (IN) Course Information (IN) Course Deleted (OUT)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors are able to manage their courses. Through the "Remove a Course" UI, instructors will be able to delete a course.
R6	Add an Assessment	Instructor's Credentials (IN) Course Information (IN) Assessment Information (IN) Course Populated with assessment data (OUT)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors are able to manage their courses. By selecting "Add an Assessment", instructors are able to add an assessment by filling out the necessary information (Name of Assessment, Effective Date of assessment). Once this form is submitted, the assessment is added to the course.
R7	Remove an Assessment	Instructor's Credentials (IN) Course Information (IN) Assessment Information (IN)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors are able to manage their courses. By selecting "Remove an Assessment", instructors are able to remove an assessment.
R8	Add questions to an assessment	Instructor's Credentials (IN) Course Information (IN) List of Questions/Solutions (IN) Course Populated with Questions/Solutions (OUT)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors are able to manage their courses. Instructors will be able to populate a specific assessment with various questions. Once populated, instructors will be led back to

			their personalized webpage with the course now populated.
R9	Post/Unpost an Assessment	Instructor's Credentials (IN) Course Information (IN) Posted Course (OUT)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors will be able to manage their courses. Instructors will be able to post/Unpost an assessment for a course.
R10	Effective Date (Assessment)	Instructor's Credentials (IN) Course Information (IN) Posted Course (OUT)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors will be able to manage their assessments. All assessments have an effective date which restrict the assessment to be available only on that date. Instructors are able to change this date after an assessment has been created.
R11	Data Analysis	Instructor's Credential (IN) Course Information (IN) Data Results (OUT)	Upon selecting the appropriate GUI button on the instructor's personalized webpage, instructors can navigate to the "Data Analysis" webpage. Each assessment of a course will have its own unique data analysis page. Instructors will be able to see various statistics about the class such as how many students have completed the assessment, and what the answer distribution was like for each question.

R12	Data Analysis for Students (Answer Key)	Student's Credential (IN) Course Information (IN) Data Results (OUT)	Upon selecting the appropriate GUI button on the Student's UI, students are able to navigate to an assessment, and view their answer along with the correct answer to each question.
R13	Add and Remove Students	Instructor's Credentials (IN) Course Information (IN)	Upon selecting the appropriate GUI button on the Instructor's UI, Instructors will be able to add and remove students by adding/removing their student numbers.
R14	LaTeX in Questions/Solutions	Instructor's Credentials (IN) Course Information (IN) LaTeX Questions (OUT)	Upon selecting the appropriate GUI button on the Instructor's UI, navigate to an assessment and add a question. Follow the instructions on how to add latex to your questions and/or solutions. Questions and Answers are outputted in LaTeX.
R15	Answer Questions	Student's Credential (IN) Course Information (IN)	Upon selecting the appropriate GUI button on the Student's UI, students are able to navigate to an assessment, and answer the questions posted by their instructor.

Figure 2: Work Partitioning

THE SCOPE OF THE PRODUCT

Product Boundary

In this case the work scope is the product boundary.

Product Use Case List

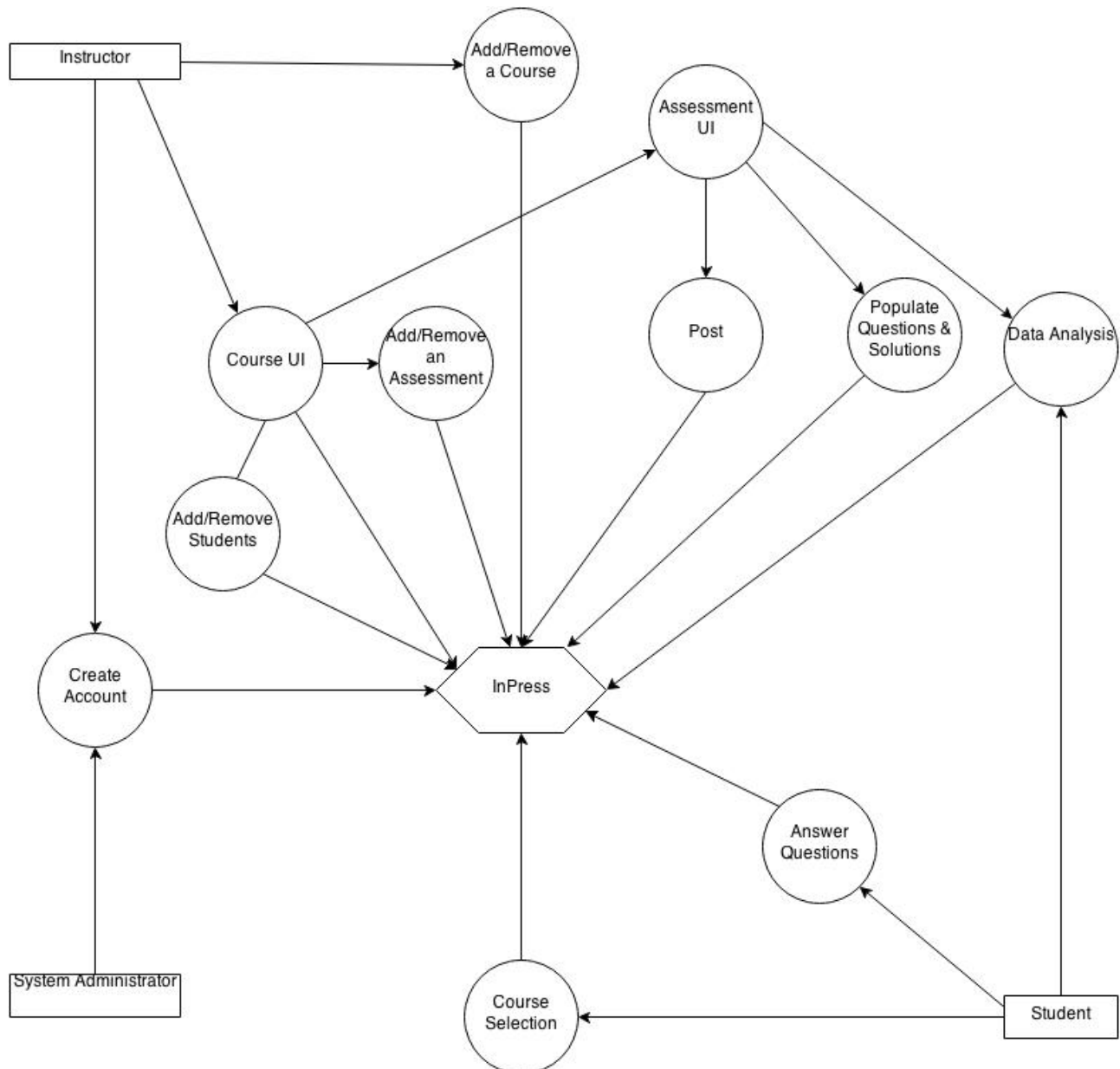


Figure 3: Product Use Case List

Individual Product Use Cases

1. **Product Use Case Name:** Create Instructor's Account

Trigger: System Administrator Manage Account Page

Preconditions: Login as System Administrator

Interested Stakeholders:

The client, customer

Actor: Web browser

Activity Diagram:

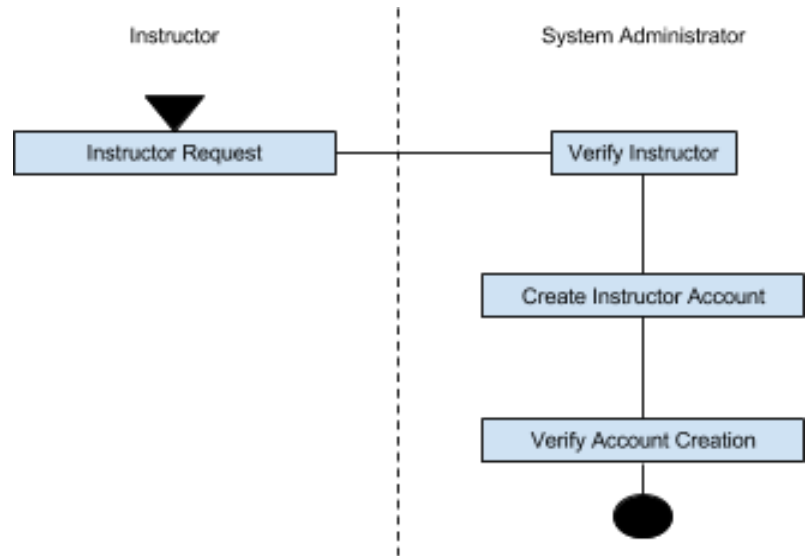


Figure 4: Create Instructor's Account Use Case

2. **Product Use Case Name:** Create a Course

Trigger: "Create a Course" on Manage Courses webpage

Preconditions: Have to login as an instructor

Interested Stakeholders: The client, customer

Actor: Web browser

Activity Diagram:

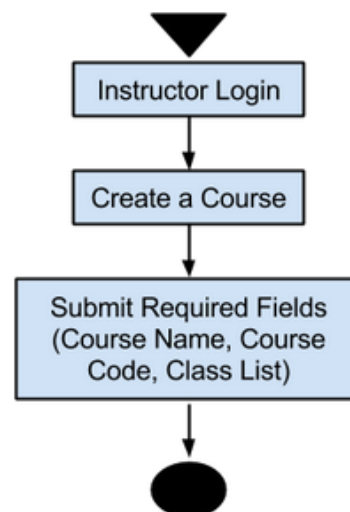


Figure 5: Create a Course Use Case

3. **Product Use Case Name:** Create Questions
Trigger: “Create Questions” UI Button in the Course’s Personalized Webpage
Preconditions: Have to login as an instructor
Interested Stakeholders: The client, customer
Actor: Web browser
Activity Diagram:

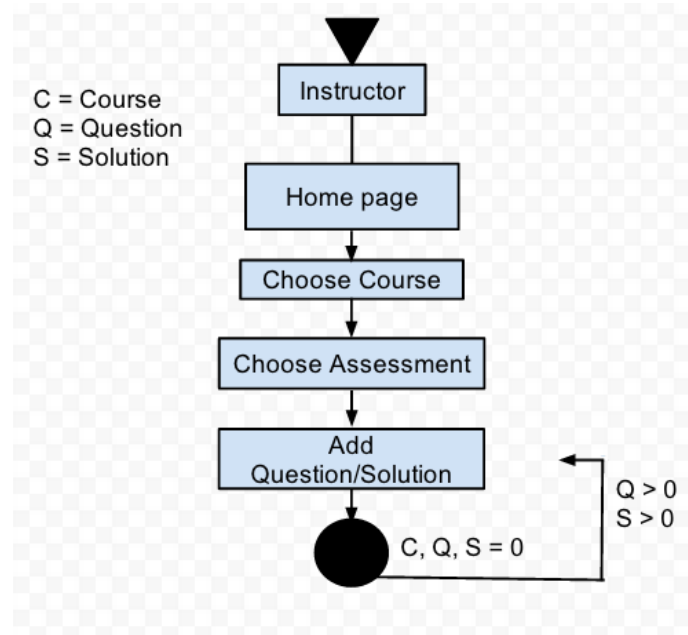


Figure 6: Create Questions Use Case

4. **Product Use Case Name:** Post/Unpost an Assessment
Trigger: “Post/Unpost” UI Button in the Course’s Personalized Webpage
Preconditions: Have to login as an instructor
Interested Stakeholders: The client, customer
Actor: Web browser
Activity Diagram:

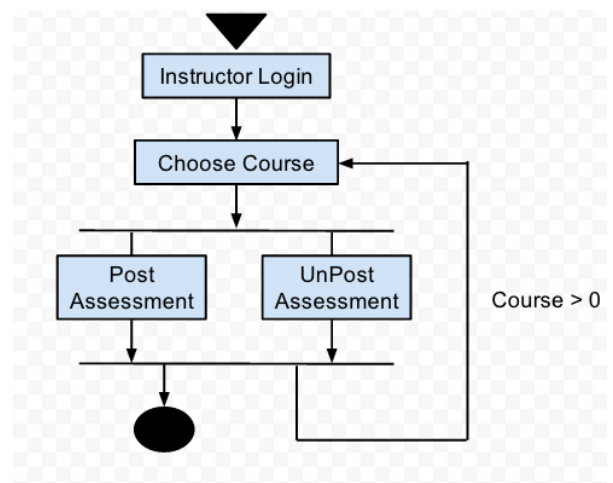


Figure 7: Post and Unpost an Assessment

5. **Product Use Case Name:** Answer the question
Trigger: “Start Assessment” UI button in the Course’s personalized webpage
Preconditions: Have to login as a Student
Interested Stakeholders: The client, customer
Actor: Web browser
Activity Diagram:

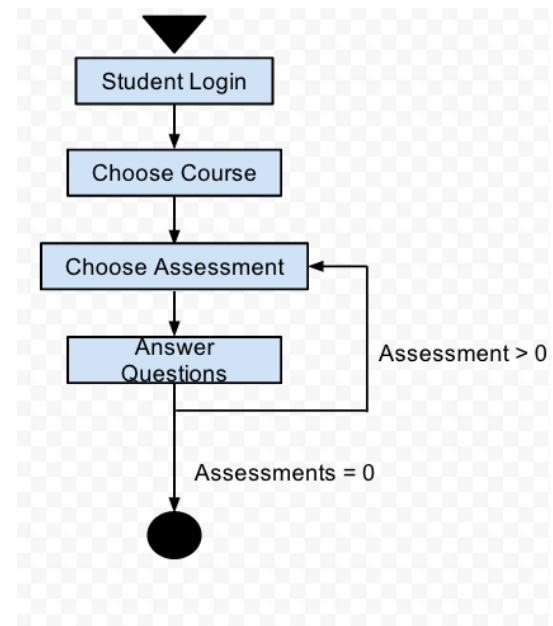


Figure 8: Answer the Question Use Case

6. **Product Use Case Name:** Check the results
Trigger: “Results” UI Button on the Course’s Personalized webpage
Preconditions: Login as an instructor/student, must be enrolled in the course
Interested Stakeholders: The client, customer
Actor: Web browser
Activity Diagram:

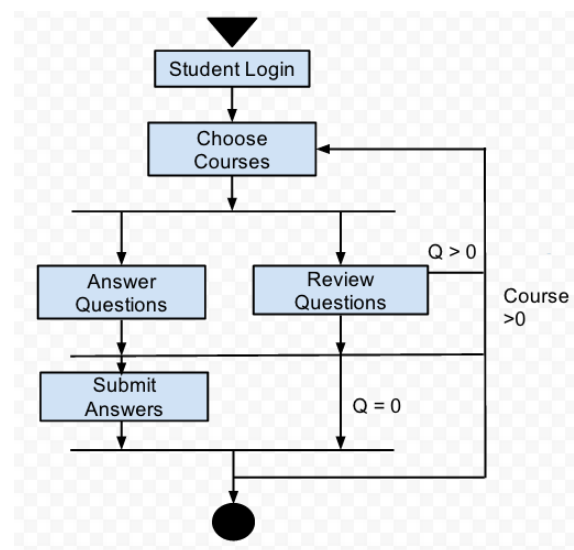


Figure 9: Check the Results Use Case

7. **Product Use Case Name:** Question Data Analysis
Trigger: “Data Analysis” UI Button in the Course’s personalized webpage
Preconditions: Have to login as Instructor and posted this question
Interested Stakeholders: The client, customer
Actor: Web browser
Activity Diagram:

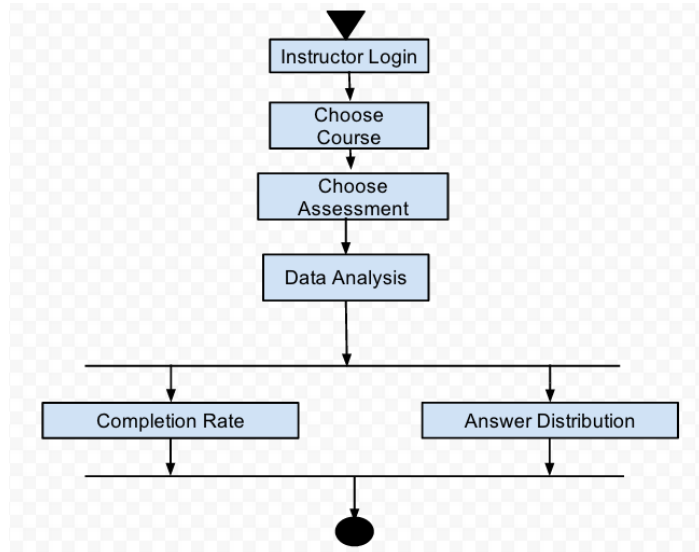


Figure 10: Question Data Analysis Use Case

8. **Product Use Case Name:** Add and Remove Students
Trigger: Course Homepage
Preconditions:
Interested Stakeholders: The client, customer
Actor: Web browser
Activity Diagram:

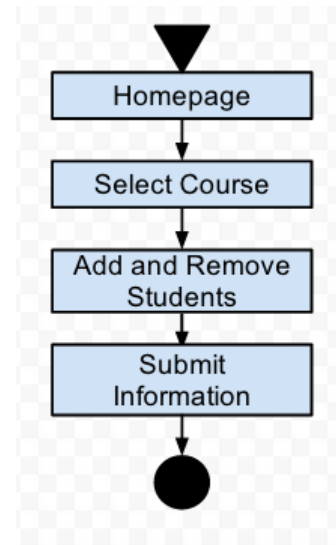


Figure 11: Student Account Registration Use Case

9. **Product Use Case Name:** Add and Remove Assessments

Trigger: Course Homepage

Preconditions:

Interested Stakeholders: The client, customer

Actor: Web browser

Activity Diagram:

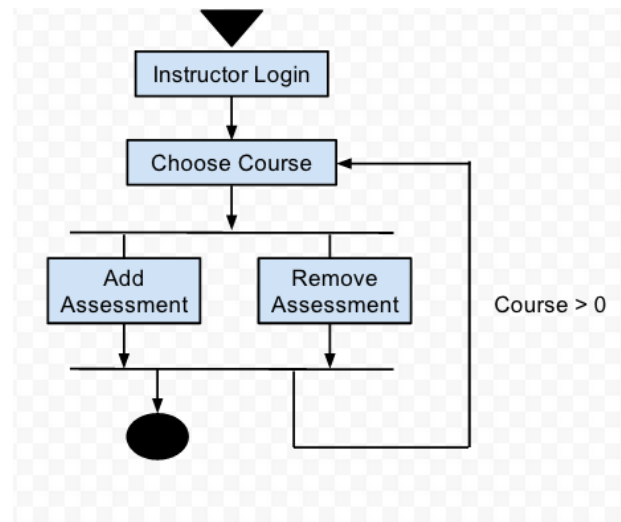


Figure 12: Add and Removing Assessments

FUNCTIONAL AND DATA REQUIREMENTS

Functional and Data Requirements

Requirement #: F1	Requirement Type: 9	Event/BUC/PUC:
Description: Courses appear on the student’s homepage		
Rationale: The student knows what courses are participating with InPress		
Originator: Requirements Analyst		
Fit Criterion: If a student is enrolled in a class which is participating with InPress, the course shall appear in the “Manage Courses” UI .		
Customer Satisfaction: 2	Customer Dissatisfaction: 5	
Dependencies:	Conflicts:	
Supporting Materials:		
History:		

Requirement #: F2	Requirement Type: 9	Event/BUC/PUC: 4
Description: The System Administrator can create an Instructor's Account		
Rationale: An Instructor's account must be created in order to create a course in InPress.		
Originator: Requirement Analyst		
Fit Criterion: When you login as an Instructor, you are redirected to the Instructor's personalized webpage.		
Customer Satisfaction: 1	Customer Dissatisfaction: 5	
Dependencies:		Conflicts:
Supporting Materials:		
History:		

Requirement #: F3	Requirement Type: 9	Event/BUC/PUC: 4
Description: Able to analyze data from previous assessments done by student.		
Rationale: Instructors want to know if students understand the concepts, and students want to know if they are comfortable with the course material being taught.		
Originator: Requirements Analyst		
Fit Criterion: As a student, you should be able to see results from any past assessments done by selecting a course and choosing the "Data Analysis" UI option. As an Instructor, you can obtain data analysis from your Manage Courses UI option.		
Customer Satisfaction: 3	Customer Dissatisfaction: 5	
Dependencies:		Conflicts:
Supporting Materials:		
History:		

Requirement #: F4	Requirement Type: 9	Event/BUC/PUC: 4
Description: Add/Remove a Course		
Rationale: All questions/solutions added to InPress must be associated with a course.		
Originator: Requirements Analyst		
Fit Criterion: Once a course is added, it should be viewable to the instructor and all students enrolled under it. Once a course is removed, it should not be viewable to the instructor and all students enrolled under it.		
Customer Satisfaction: 4	Customer Dissatisfaction: 5	
Dependencies:	Conflicts:	
Supporting Materials:		
History:		

Requirement #: F5	Requirement Type: 9	Event/BUC/PUC: 4
Description: Populate InPress with questions/solutions for a course		
Rationale: Main purpose of InPress, the instructor needs to be able to populate the software with pre-generated questions.		
Originator: Requirements Analyst		
Fit Criterion: Navigate to the Courses UI as an Instructor, choose the corresponding course, and view questions/solutions already populated.		
Customer Satisfaction: 3	Customer Dissatisfaction: 5	
Dependencies:	Conflicts:	
Supporting Materials:		
History:		

Requirement #: F6	Requirement Type: 9	Event/BUC/PUC: 4
Description: Able to post and unpost assessments for a specific course		
Rationale: The assessment should only be available at a certain time in order to make it fair for all students		
Originator: Requirements Analyst		
Fit Criterion: If an assessment for a course is posted (Instructors can post via the Courses UI), then the student should be able to see it in "Start Assessment" UI option for that specific course. If an assessment for a course is unposted (Instructors can unpost via the Courses UI), then the student should not see it in the "Available Assessments" UI option for that specific course.		
Customer Satisfaction: 3	Customer Dissatisfaction: 5	
Dependencies:	Conflicts:	
Supporting Materials:		
History:		

Figure 13: Volere Cards

Nonfunctional Requirements

LOOK AND FEEL REQUIREMENTS

Appearance Requirements

The User Interface for the web-application will be a simple interface with very few buttons.

Style Requirements

The style will be user friendly, keeping button clicks to a minimal in order to achieve various tasks.

USABILITY AND HUMANITY REQUIREMENTS

Ease of Use Requirements

The web-application should be easy to use for every type of users out there, from novice to power-users.

Personalization and Internationalization Requirements

- Since each student and instructor have different courses, they will have their own webpages
- The web-application will be in English.

Learning Requirements

- The learning curve will be kept minimal. It should not take them more than five minutes to understand how to use this web-application.
- For the System Administrator or Technicians, it should not be difficult to install the application, maintain and create Instructor ID's.

Understandability and Politeness Requirements

- Any type of user can use the web application easily
- Hide functions that will confuse users
- There should be no grammar mistakes and inappropriate language anywhere on the web-application.

Accessibility Requirements

- For Mobile Apps, it will be on Apple's App Store, or Google's Play store
- For Laptops, there will be a link that can access it directly (something similar to Avenue).
- Supported on all Internet Enabled devices (including Apple, Blackberry, Sony, Android devices)

PERFORMANCE REQUIREMENTS

Speed and Latency Requirements

- Each webpage shall take no longer than ten seconds to load.

Safety- Critical Requirements

- Student data should not be accessible by any other student
- Instructors data should only be accessed by the instructor themselves or the system administrator.
- Only the System Administrator has access to the administration site.

Precision or Accuracy Requirements

- There should be no errors when saving the students answers, even after they changed their answers.
- The web application should not be retrieving incorrect student information.
- Students, administrator, and instructors should have their own unique ID's and should not be mixed up

Reliability and Availability Requirements

- Once launched to the university, InPress will be available to students/instructors 24 hours a day 7 days a week.

Robustness or Fault- Tolerance Requirements

- The web-application will be robust enough to recover from errors (such as duplicated login)
- Zero fault-tolerance. This is because if the students' data are saved incorrectly, data analysis will not be accurate. Hence, defeating the point of the data analysis.

Capacity Requirements

- The application should be scalable, meaning the max capacity will depend on the hardware (system and storages)
- The application will support at least 200 concurrent user connections with at most 10 seconds latency

Scalability or Extensibility Requirements

- Infrastructure similar to cloud. An increase of storage space, or an upgrade for the system (CPU / Memory) will be sufficient.

Longevity Requirements

- It should last until it is no longer used. There will be maintenance patches, and the robustness should recover from failures.

OPERATIONAL AND ENVIRONMENTAL REQUIREMENTS

Expected Physical Environment

- It could be anywhere, from classroom to home.
- The hosting server will be in the school's data center

Requirements for Interfacing with adjacent Systems

Not Applicable

Productization Requirements

Not Applicable

Release Requirements

This product will be opened sourced and will have regular maintenance.

MAINTAINABILITY AND SUPPORT REQUIREMENTS

Maintenance Requirements

- Periodic patches and maintenance to ensure the system is up-to-date and bug-free

Supportability Requirements

- Backup should be made every month for current courses.

Adaptability Requirements

- The web-application should be able to adapt into any Linux environment
- Migrating into a new box should be very easy

SECURITY REQUIREMENTS

Access Requirements

- Only the System Administrator can make changes to the web-application.
- Instructors can only see their own course data along with their enrolled students' data
- Students should only access their only account

Integrity Requirements

- Security algorithms will be in place to prevent data corruption
- Minimum of RAID 5 array will be in place to recover from hard disk failures.

Privacy Requirements

- Only the System Administrator may see everyone's data
- The instructors will only see their own course data along with their enrolled students' data.
- Students can only see their own data.
- The main implementation will be hidden from everyone.

Audit Requirements

- The web-application will follow the institute's data center security compliances.

Immunity Requirements

Not Applicable as it will depend on the Institute's Security.

CULTURAL AND POLITICAL REQUIREMENTS

Cultural Requirements

Not applicable

Political Requirements

Not applicable

LEGAL REQUIREMENTS

Compliance Requirements

- Web-application is open-sourced, and will follow the relevant licenses.
- Web-application should not involve any patent wars.

Standards Requirements

- Everything is confidential, and should not be released to anyone except authorized individuals
- Will not be affiliate with any Patents.

Project Issues

OPEN ISSUES

- We do not know where the server is physically located
- We do not know the specifications of the server

OFF-THE-SHELF SOLUTIONS

N/A

NEW PROBLEMS

N/A

TASKS

- a. Gather missing requirements
- b. Develop prototype
- c. Get feedback about prototype
- d. Provide arguments why current prototype is ideal by comparing it to current of-the-shelf products.

MIGRATION TO THE NEW PRODUCT

Not applicable.

RISKS

There is a risk of being unable to migrate the web-application to a new server if the current server cannot support any more resources (i.e. increase of CPU or memory). Although everything can be made into an image and be migrated to a new server, there is no promise that storage will not have errors.

COSTS

Not in the requirement

USER DOCUMENTATION AND TRAINING

There will be documentation for all three groups of people: the administrators (including system administrators / technicians), instructors and students. This documentation is crucial for the administrators because they will be the ones that have to set up the system.

WAITING ROOM

Not applicable

IDEAS FOR SOLUTIONS

A number of solutions currently exist. 1) iClicker ® 2) Top Hat Monocle

Requirements Timeline

Requirements	Projected Month Deadline
R1: Create an Instructor Account	By December
R2: Login as an Instructor	By December
R3: Login as a Student	By December
R4: Create a course	By December
R5: Delete a Course	By December
R6: Add an Assessment	By January
R7: Remove an Assessment	By January
R8: Add questions to an assessment	By January
R9: Post/Unpost an Assessment	By January
R10: Effective Date (Assessment)	By January
R11: Data Analysis	By February
R12: Data Analysis for Students (Answer Key)	By February
R13: Add and Remove Students	By March
R14: LaTeX in Questions/Solutions	By March
R15: Answer Questions	By February