

Assignment 4

Design Focus: Architecture and System Design Process

Group 6
Chris Bigge
Kevin Bowers
Joseph Burris

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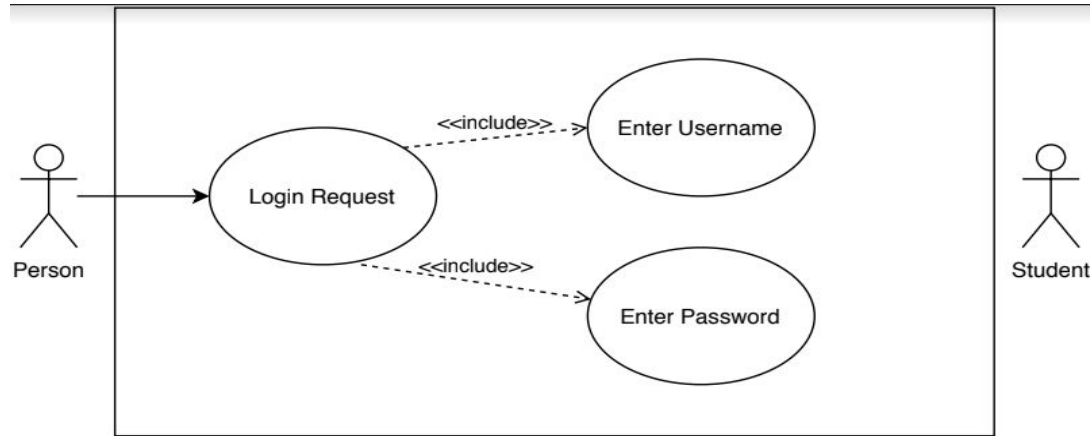
1. Use Case Diagram and Use Case Description
2. Three Activity Diagrams
3. Class Diagram
4. Entity Relationship Diagram
5. Sequence Diagram
6. State Machine Diagram

1.

Title- Use Case Diagram and Use Case Description

Caption- This is the use case diagram and description for the activity of a student logging in to the system

Contributors- Chris



Student Login Use Case

1. Brief Description

This use case describes how a user logs into their school dashboard. The actor starting this use case are Students

2. Flow of Events

The use case begins when the actor types his/her username and password on the login form.

1. Basic Flow - Login

1. The username and password are checked against the system's records.
2. The actor is redirected to their dashboard and the use case ends.

2. Alternate Flow

1. Invalid Credential
2. If the system cannot find a match on the username or password, an error message is returned and displayed to this user. The actor can resubmit new credentials or cancel, which would end the use case.

3. Special Requirements

There are no special requirements.

4. Preconditions

There are no preconditions.

5. Postconditions

There are no postconditions.

6. Extension Points

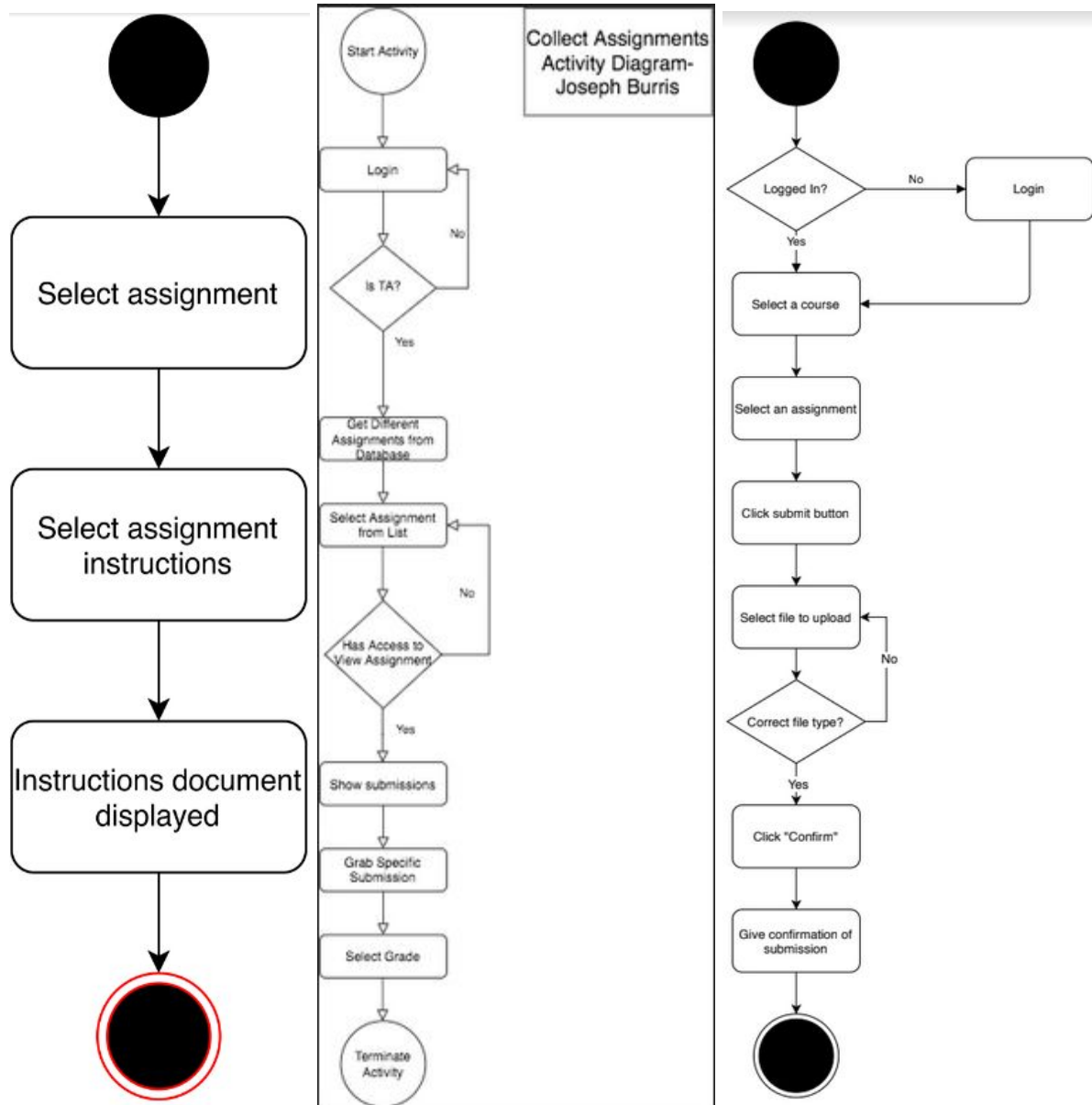
There are no extension points.

2.

Title- Activity Diagrams

Caption- From left to right activities are: Student viewing a document, TA collecting assignments, Student submit assignment

Contributors- From left to right Chris, Joseph, Kevin

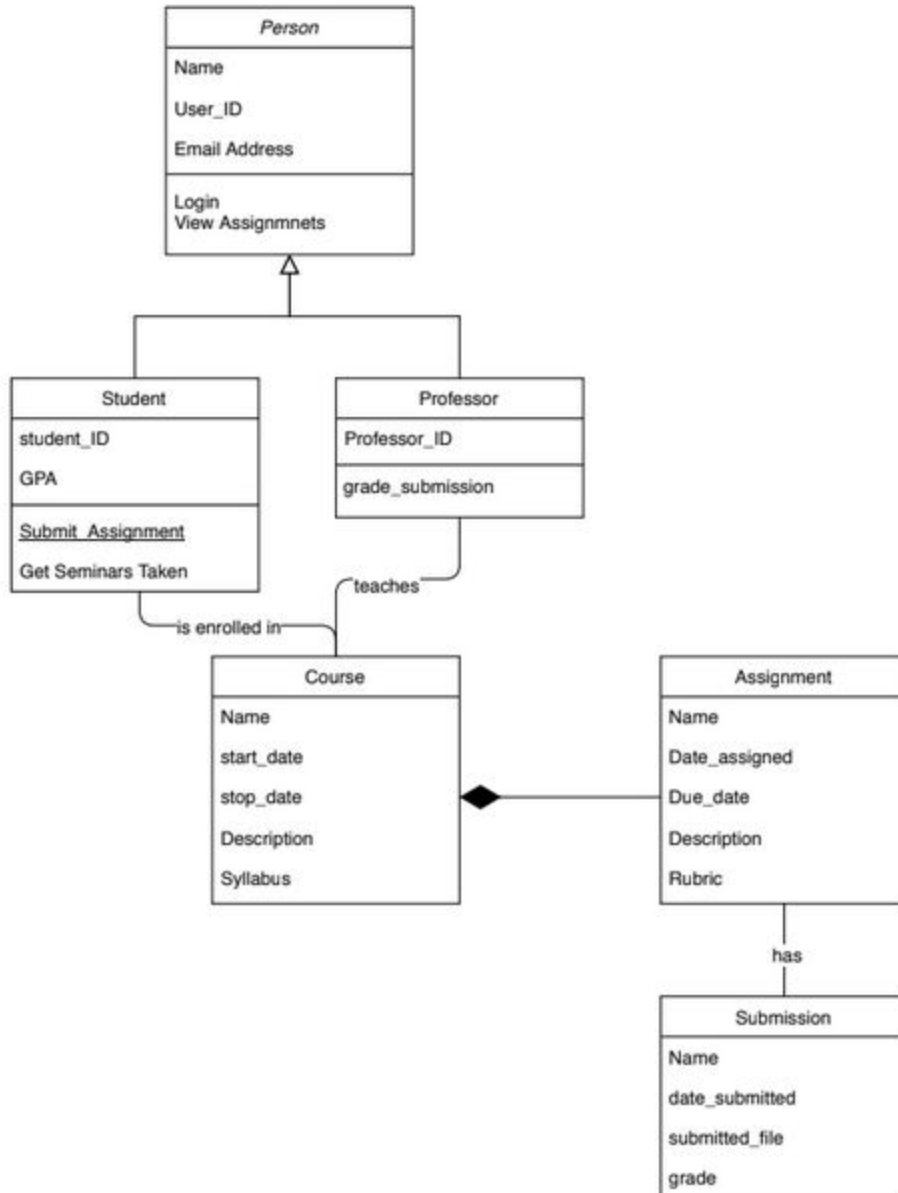


3.

Title- Class Diagram

Caption- Class Diagram for a Student submitting an assignment

Contributors- Kevin

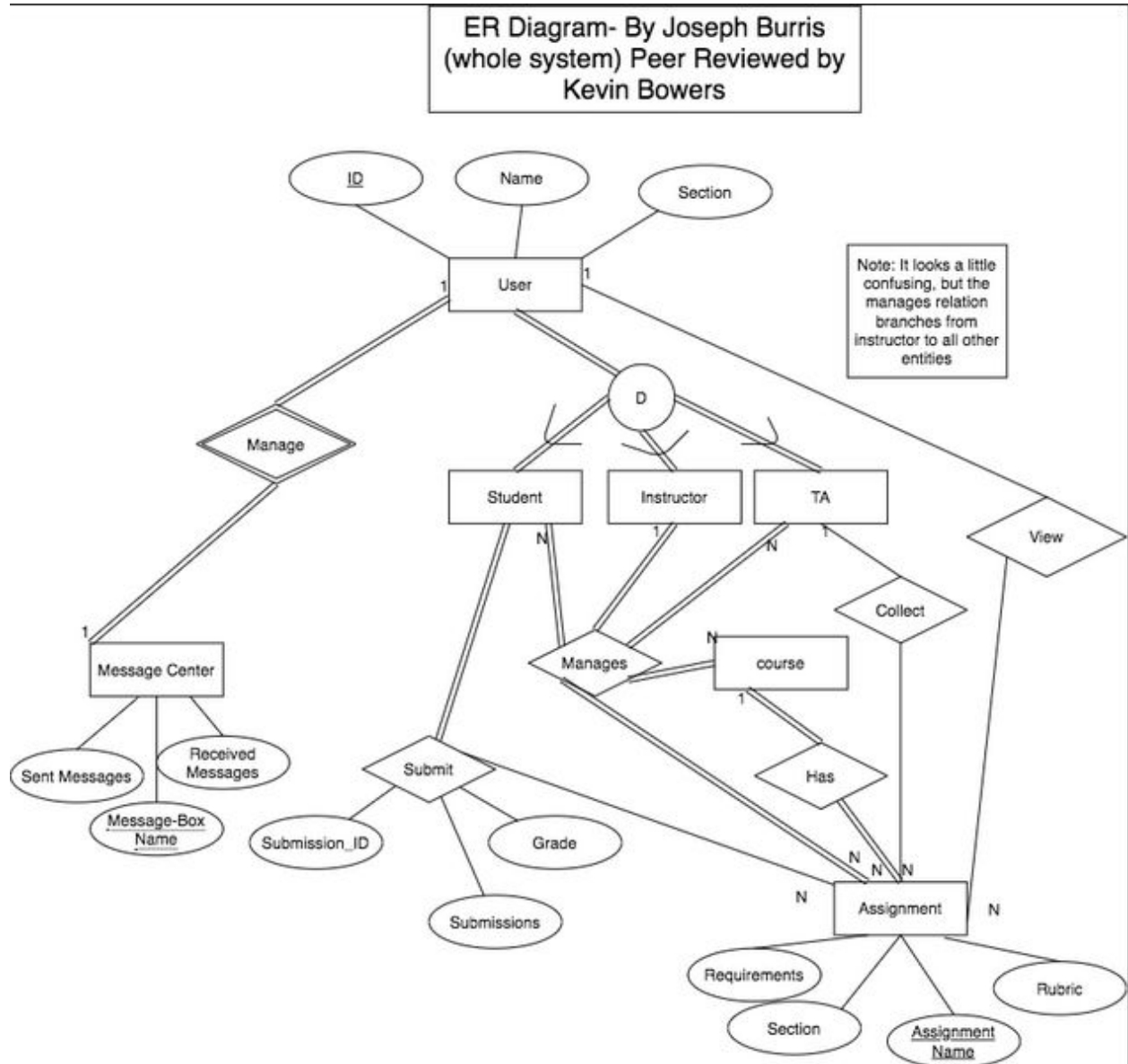


4.

Title- ER Diagram

Caption- Entity Relationship diagram for the whole system design

Contributors- Joseph, Kevin

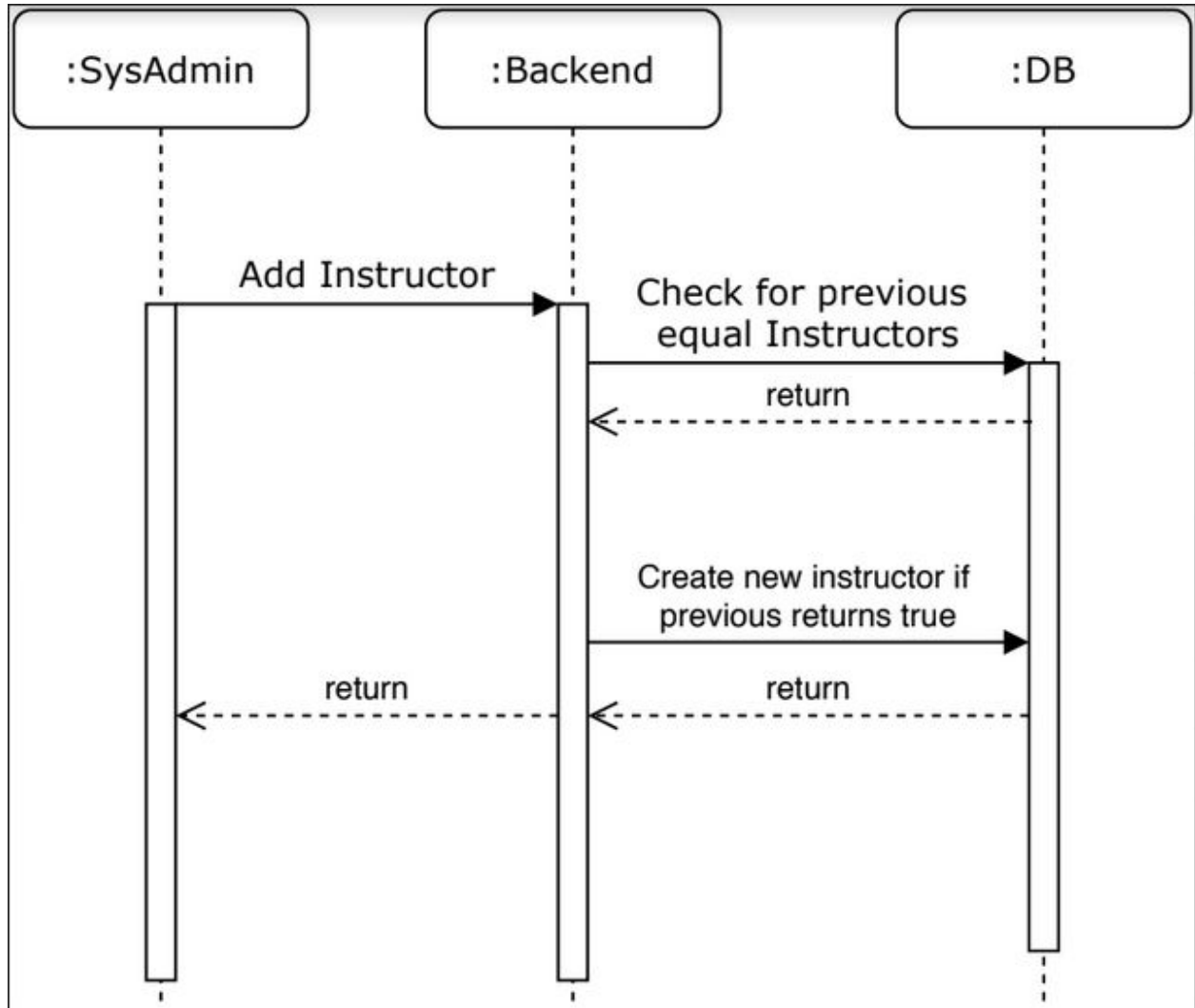


4.

Title- Sequence Diagram

Caption- This sequence diagram is showing the process of a System Administrator creating a new instructor

Contributors- Chris



5.

Title- State Machine Diagram

Caption- This state machine diagram showing the states in processes of the whole system.

Contributors- Joseph

