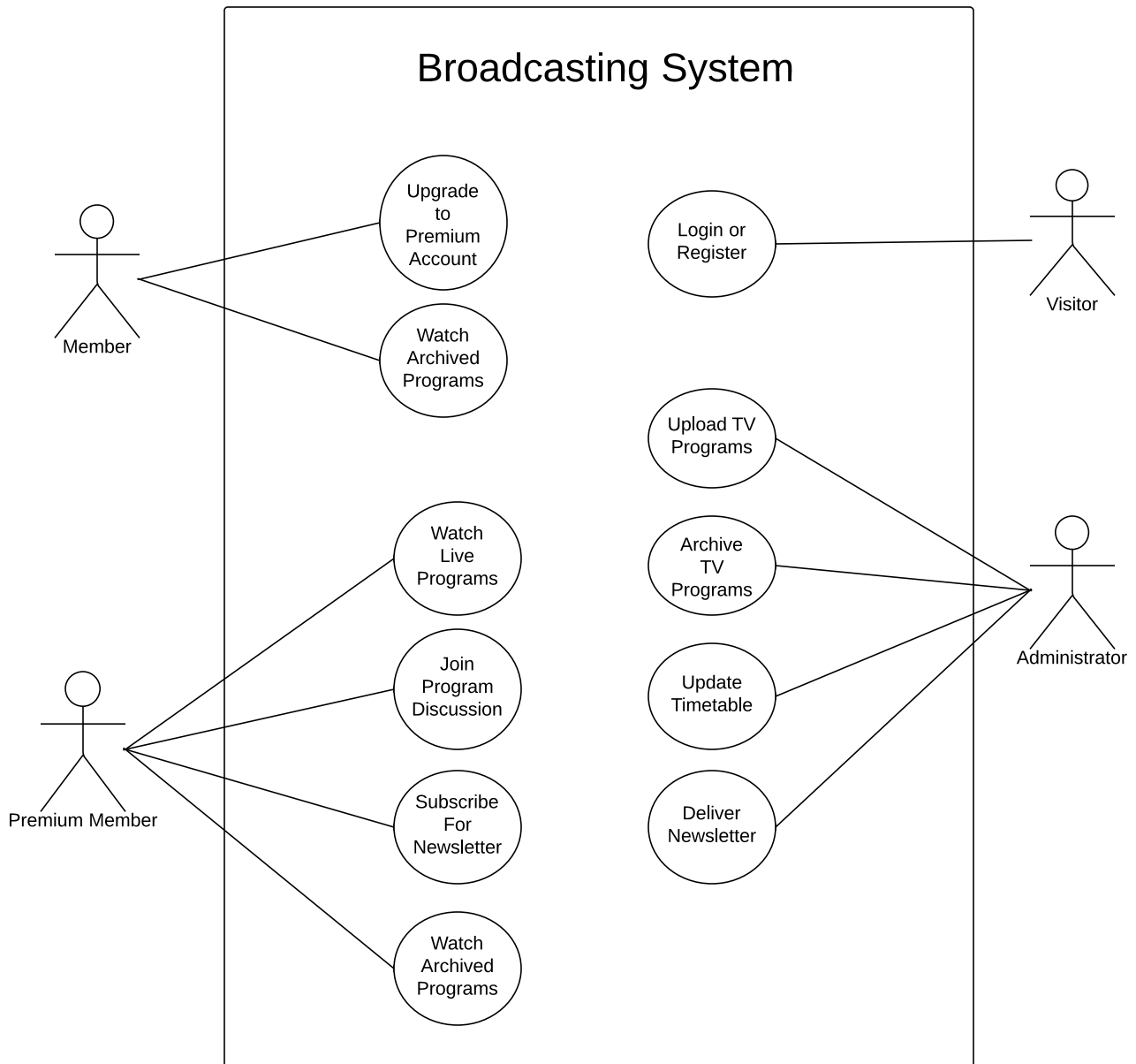
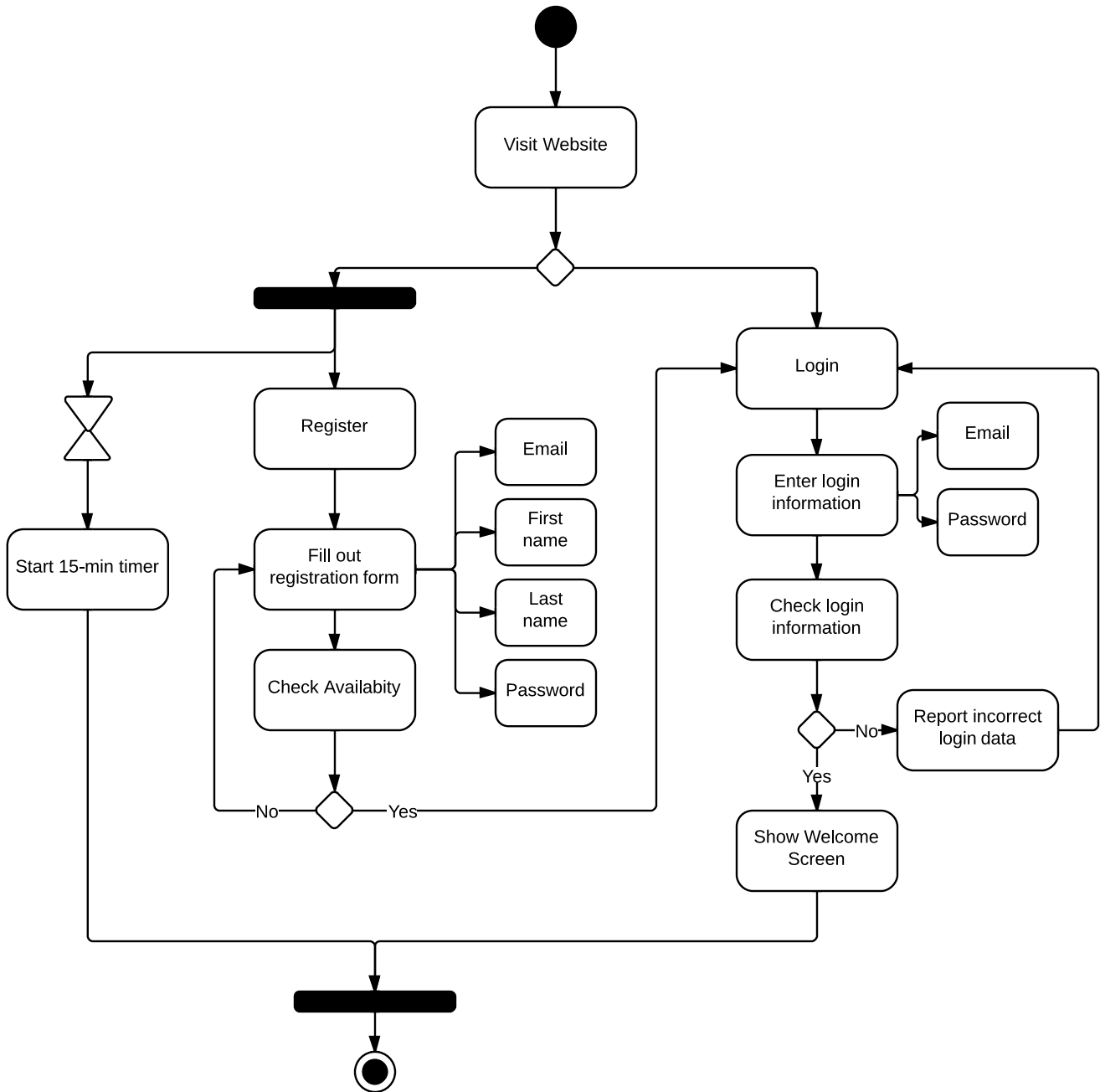


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Course Code: CSC290

Assignment #2: UML Model (includes: 1 Use Case Diagram,
2 Activity Diagrams and 2 associated Use Case Text)
TITLE: BROADCASTING SYSTEM



Register / Login



Use Case Text for Register / Login Use Case

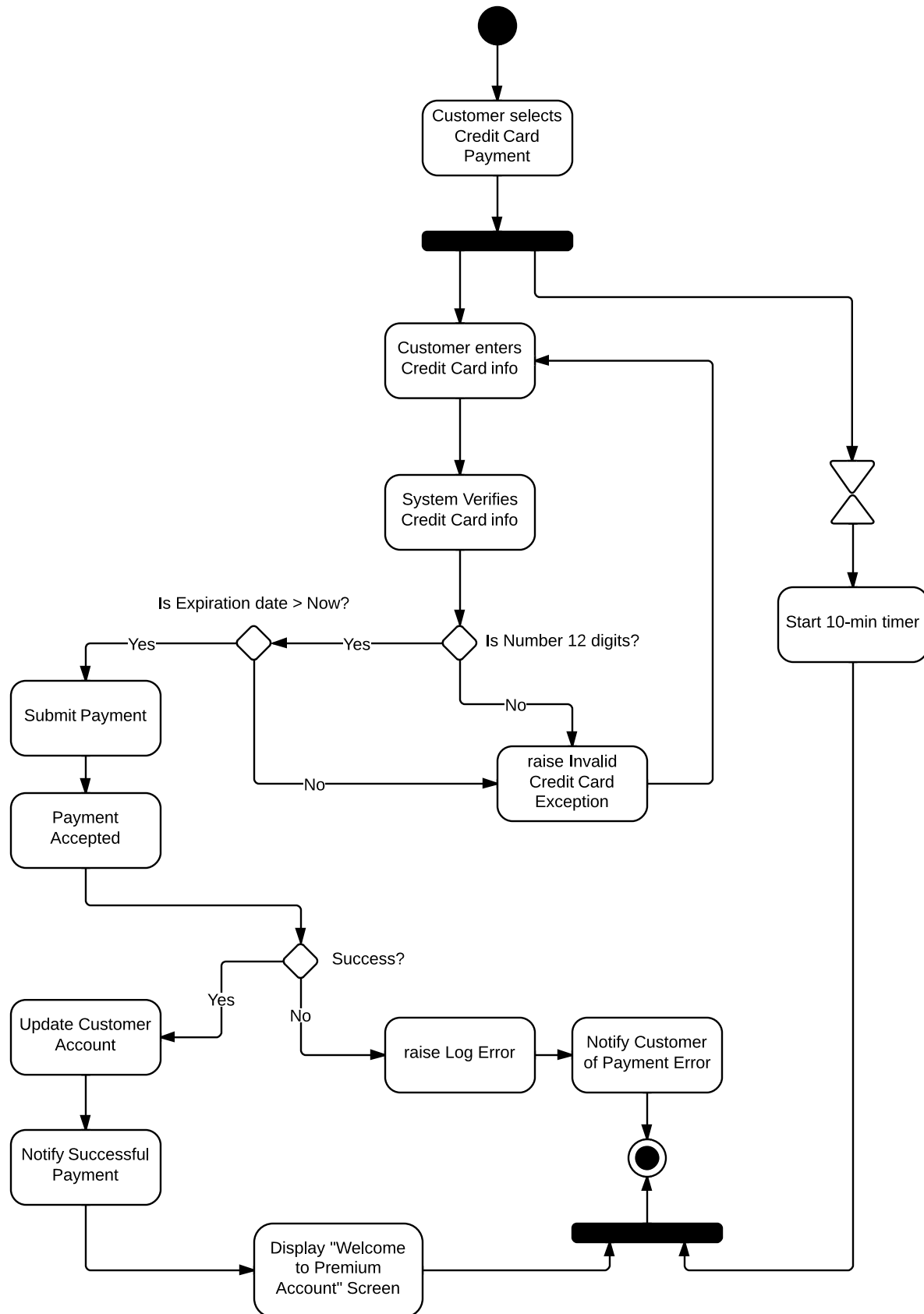
Goal: To register a new user or login an existing user.

Actors: New visitor / Existing visitor.

Main Success Scenario:

- User is welcomed to the website via the welcome screen.
- If user chooses to register, the website redirects to registration page.
- A 15-minute timer is initiated.
- If the user does not complete registration within 15-minutes, the webpage will expire. Otherwise, all functionality will be maintained.
- User fills out the registration form.
- Registration form requires an email address, first and last name and allows user to choose a password.
- Website sends user-entered information to check for availability.
- If the credentials are not available, the website redirects user to refill the registration page with new information.
- If the credentials are available, the website redirects user to the official login page.
- The user enters their login info, which includes the email address and password.
- The information is verified by the website.
- If the information is incorrect, the website reports an error and asks the user to re-enter their credentials.
- If the information is correct, the website redirects user to the official welcome screen.

Upgrade to Premium Account



Use Case Text for Upgrade to Premium Account Use Case

Goal: To upgrade an existing member.

Actors: Member.

Main Success Scenario:

- Member is welcomed to the website via the official welcome screen.
- The member selects Credit Card Payment.
- A 10-minute timer is initiated.
- If the user does not complete upgrade within 10-minutes, the webpage will expire. Otherwise, all functionality will be maintained.
- Member fills out the upgrade form by entering their credit card credentials.
- System sends user-entered information for verification.
- System verifies the information in 2 stages.
 - Stage 1: Is the Credit Card number = 12 digits?
 - If yes, then Stage 2 verification is initiated.
 - If no, the system raises an Invalid Credit Card Exception and requests the user to re-enter credit card information.
 - Stage 2: Is the Expiration Date > today's date?
 - If yes, the user submits payment. The system then accepts payment and checks if the transaction is successful.
 - If no, the system raises an Invalid Credit Card Exception and requests the user to re-enter credit card information.
- If the system passes through Stage 1 and Stage 2, the system checks the status of the transaction.
- If transaction fails, the system raises a Log Error and the member is notified of a failed payment error.
- If successful, the member's account is updated.
- The member is notified that payment is successful and is welcomed to the official Premium Member Account website.

CSC290 UML Model Grading Rubric

Student Name: _____

	A (20-25)	B (17.5-20)	C (15-17.5)	D (12.5-15)	F (<12.5)
Use Case Diagram (25%)	<ul style="list-style-type: none">The diagram stands out as a very well documented business process.	<ul style="list-style-type: none">A good Use Case diagram, but doesn't show depth of knowledge of the business process being modelled.The diagram clearly communicates the scope of the business process being modelled.The diagram clearly communicates the users of the business process, and how they will use it.	<ul style="list-style-type: none">The Use Cases combine to form a system, or business process, but one or more Use Cases that would clearly be needed are missing.One or more Actors that would clearly be users of the system are missing.The business system appears to be trivial, or has been trivialized in the modelling.	<ul style="list-style-type: none">It is not clear that the Use Cases are components that, taken together, form an information system.Actors do not clearly represent system user roles or external systems.Use Cases appear to lack the complexity to merit being a Use Case.Use Cases are too complex and should be broken down.	<ul style="list-style-type: none">Use Case diagram does not have at least 3 Actors and 5 Use Cases.Use Case diagram fails to adhere to the UML standard as taught.Use Cases are shown without associated Actors.The modelled business process is not unique, and student was not the first to "claim" it on the discussion board.

	A (20-25)	B (17.5-20)	C (15-17.5)	D (12.5-15)	F (<12.5)
Activity Diagram 1 (25%)	<ul style="list-style-type: none"> • The diagram stands out as being excellent. • The diagram demonstrates knowledge of, and appropriate use of, most of the UML diagramming tools. 	<ul style="list-style-type: none"> • The diagram is complete and correct. • There are UML errors that would not prevent it from accomplishing its goals. 	<ul style="list-style-type: none"> • The diagram is clearly missing necessary components. • There are not more than two errors in the Activity Diagram of the use case that would prevent it from accomplishing its goals 	<ul style="list-style-type: none"> • The diagram is either too complex or not complex enough. • There are more than two, but less than four, errors in the Activity Diagram of the use case that would prevent it from accomplishing its goals. 	<ul style="list-style-type: none"> • All required Activity Diagram components are not used.
Activity Diagram 2 (25%)	<ul style="list-style-type: none"> • The diagram stands out as being excellent. • The diagram demonstrates knowledge of, and appropriate use of, most of the UML diagramming tools. 	<ul style="list-style-type: none"> • The diagram is complete and correct. 	<ul style="list-style-type: none"> • The diagram is clearly missing necessary components. • There are not more than two errors in the Activity Diagram of the use case that would prevent it from accomplishing its goals 	<ul style="list-style-type: none"> • The diagram is either too complex or not complex enough. • There are more than two, but less than four, errors in the Activity Diagram of the use case that would prevent it from accomplishing its goals. 	<ul style="list-style-type: none"> • Required Activity Diagram components are not used.

	A (20-25)	B (17.5-20)	C (15-17.5)	D (12.5-15)	F (<12.5)
Use Case Text (25% for both combined)	<ul style="list-style-type: none"> • The textual description of both of the Use Cases stands out as being excellent. • Clear, concise sentences. • Polished and professional language throughout. • Varied and appropriate syntax. • No grammar errors. 	<ul style="list-style-type: none"> • The text is sufficient to clearly document how the Use Cases will be implemented. • Mostly clear, concise sentences. • Professional language throughout. • Appropriate syntax. • May have some minor grammar errors. 	<ul style="list-style-type: none"> • The text documents how the Use Cases are to be implemented, but lacks clarity. • There are not more than two errors in the use cases that would prevent them from accomplishing its goals. • Adequate sentence structure, but may require editing for clarity / wordiness. • Some language is too informal. • Syntax is very simple. • Some grammar errors, but these do not impede understanding. 	<ul style="list-style-type: none"> • The text expands on what is in the diagram, but fails to adequately document how the Use Cases are to be implemented. • There are more than two, but less than four, errors in the use cases that would prevent them from accomplishing its goals. • Poor sentence structure; writing may be wordy or difficult to follow in places. • Relies on informal or colloquial language to convey argument. • Problems with syntax. • Many grammar errors that impede understanding in places. 	<ul style="list-style-type: none"> • The text does not elaborate on what is in the diagrams. • Very poor sentence structure. • Inappropriate language and word choice. • Problems with syntax. • Significant grammar errors that impede understanding.

Final Grade:

General Comments: