Team:

Ross Blassingame

Michael Tang

Josh Jenkins

Griffith Neumark

Title:

Story

Project Summary:

A social media website where users can create accounts, edit their profiles, send out

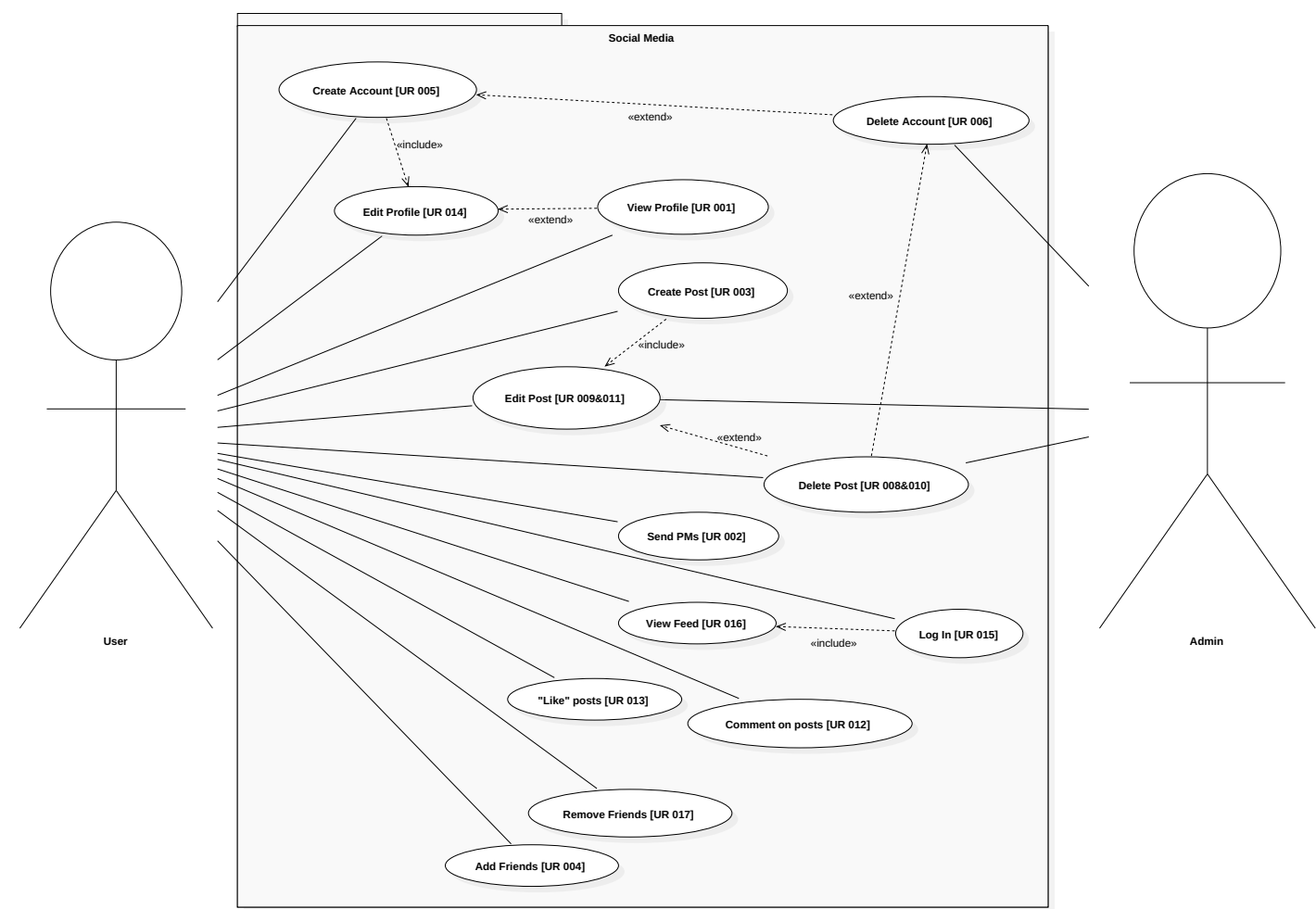"tweets"/update their status, send DMs, etc.

User Requirements

ID	Requirements	Topic Area	Actor	Priority
UR-01	As a user, I want view my profile	Profile	Users	High
UR-02	As a user, I want to send a private message to another user	Communication	Users	High
UR-03	As a user, I want to post to a feed so everyone can see	Content	Users	Critical
UR-04	As a user, I should be able to add friends	Communication	Users	Nice-to-have
UR-05	As a user, I should be able to create an account	Account	Users	Critical
UR-06	As a user, I should be able to delete my own account	Account	Users	Medium
UR-07	As a admin, I want to be able to delete an account	Account	Admin	Low
UR-08	As a user, I want to be able to delete post	Content	Users	Low
UR-09	As a user, I want to be able to edit my post	Content	Users	Low
UR-10	As an admin, I want to be able to delete a post	Content	Admin	Low
UR-11	As an admin, I want to be able to edit a post	Content	Admin	Low
UR-12	As a user, I want to be able to comment on a post	Communication	Users	Medium
UR-13	As a user, I want to "like" a post	Content	Users	Medium
UR-14	As a user, I want to edit my profile	Profile	Users	Medium
UR-15	As a user, I should be able to log in.	Account	Users	Critical
UR-16	As a user, I should be able to view my feed.	Content	Users	High
UR-17	As a user, I want to be able to remove friends	Communication	Users	Nice-to-have
UR-18	As a user, I want to be able to post photos	Content	Users	Nice-to-have

Non-Functional Requirements

ID	Requirements	Topic Area	Actor	Priority
NRF-01	DB to store user information	Storage	System/Admin	Medium
NFR-02	All users must have a minimum 8-digit password	Security	All	Low
NFR-03	All users must have a unique email to create an account	Security	All	High
NFR-04	No profanity on profile/posts	Rules	All	Low
NFR-05	Limit posts to 1,000 characters	Rules	All	Nice-to-have
NFR-06	Hide a post over 100 characters by default	Usability	All	Nice-to-have

No Business Requirements

Use Case Diagram

Social Media

Create Account [UR 005]

Delete Account [UR 006]

«extend»

«include»

Edit Profile [UR 014]

View Profile [UR 001]

«extend»

Create Post [UR 003]

«extend»

«include»

Edit Post [UR 009&011]

«extend»

Delete Post [UR 008&010]

Send PMs [UR 002]

View Feed [UR 016]

Log In [UR 015]

«include»

"Like" posts [UR 013]

Comment on posts [UR 012]

Remove Friends [UR 017]

Add Friends [UR 004]

User

Admin

Use Case Documents

Use Case ID:	UC-03
Use Case Name:	Post to Feed
Description:	User can post to a feed
Actors:	Users
Pre-conditions:	User must have an account and navigated to the post field.
Post-condition:	Post is viewable to you and your friends.
Frequency:	Frequent

Flow of Events:	Actor action	System response
1)	User populates post field	
2)	User clicks submit	System checks if post is valid
3)		System saves post to database
4)		System presents visible post to user

Variations:	Post may not be valid causing user to re-enter post.
Exceptions:	N/A
Notes:	N/A

Use Case ID:	UC-05
Use Case Name:	Create account
Description:	User creating an account
Actors:	Users
Pre-conditions:	User needs a unique email for a new account.
Post-condition:	User will now have an account.
Frequency:	One time per user

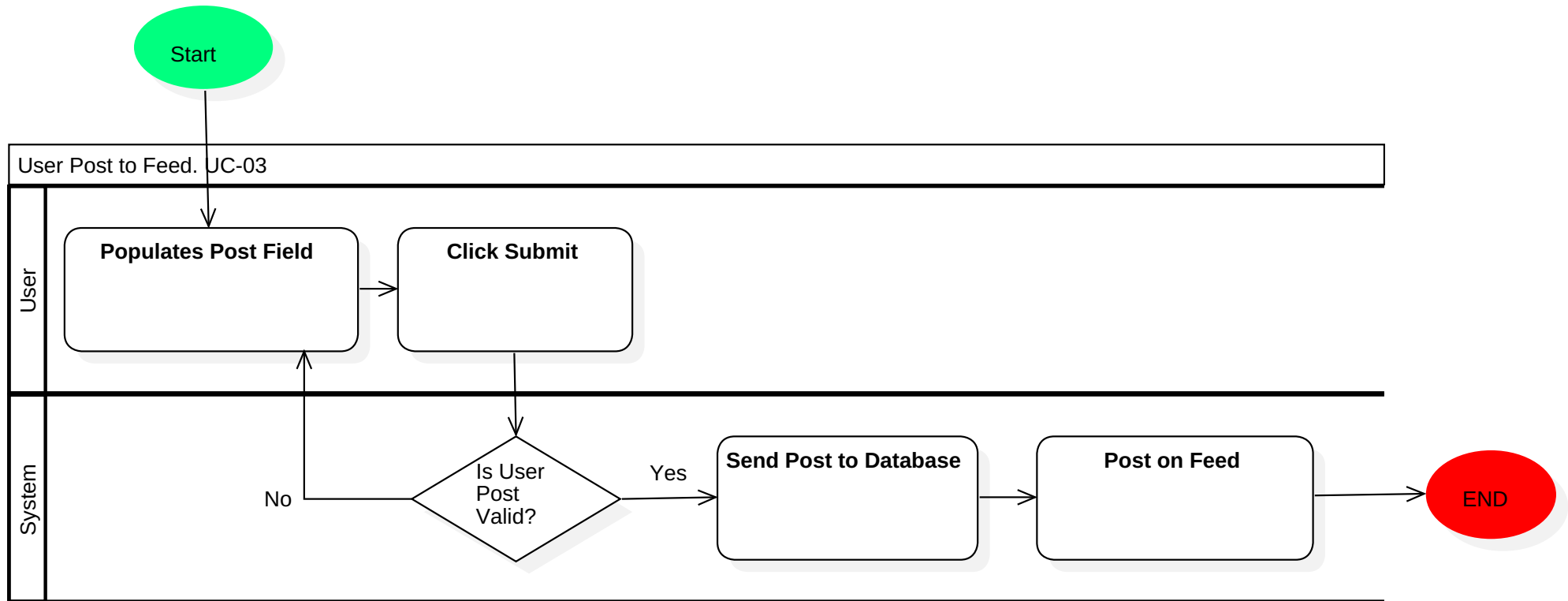| Flow of Events:	Actor action	System response
1)	Press create account button	Bring up create account form
2)	Fill form with email, username, password	
3)	Submit form	Validate email, username, password
4)		Save new account to database
5)		Present welcome window

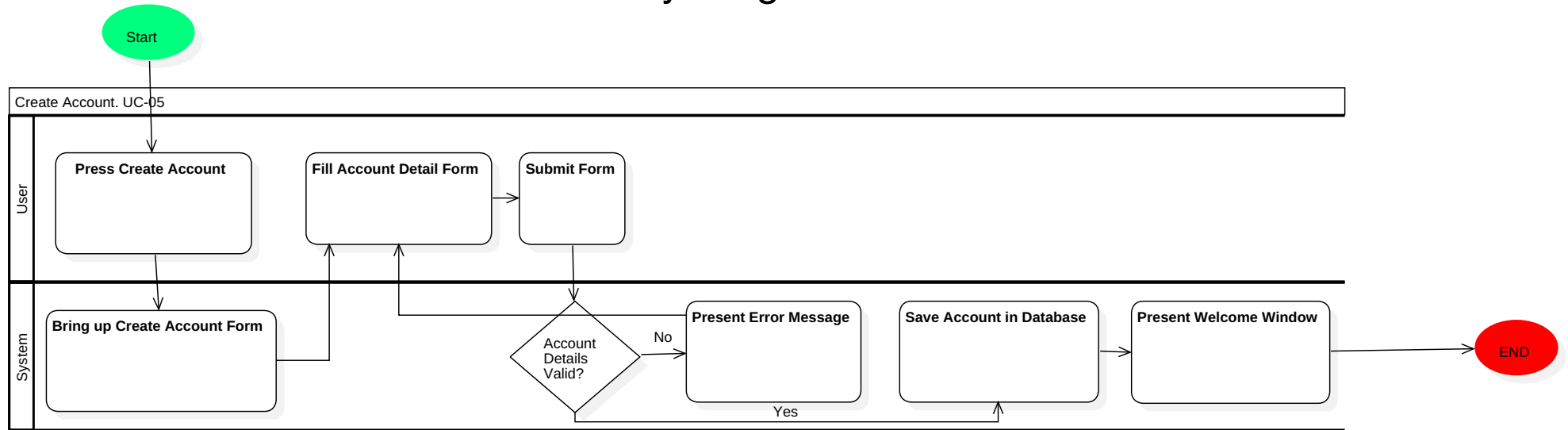|	
Variations:	N/A
Exceptions:	Email, username, password may not be valid, causing user to re-enter information.
Notes:	N/A
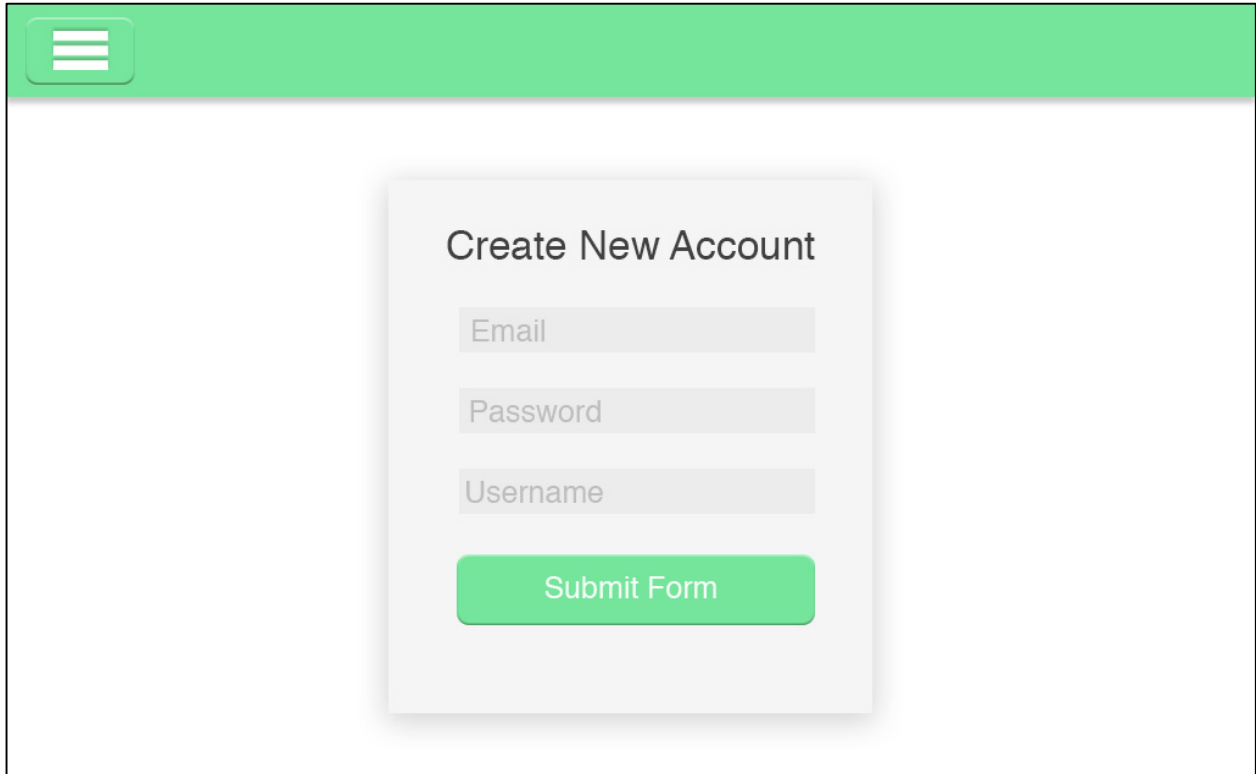
Activity Diagram 1

Start

User Post to Feed. UC-03

User

Populates Post Field → **Click Submit**

System

Is User Post Valid?

No

Yes → **Send Post to Database** → **Post on Feed** → END

Activity Diagram 2

Start

Create Account. UC-05

User

- **Press Create Account**
- **Fill Account Detail Form**
- **Submit Form**

System

- **Bring up Create Account Form**
- Account Details Valid?
  - No
  - Yes
- **Present Error Message**
- **Save Account in Database**
- **Present Welcome Window**

END
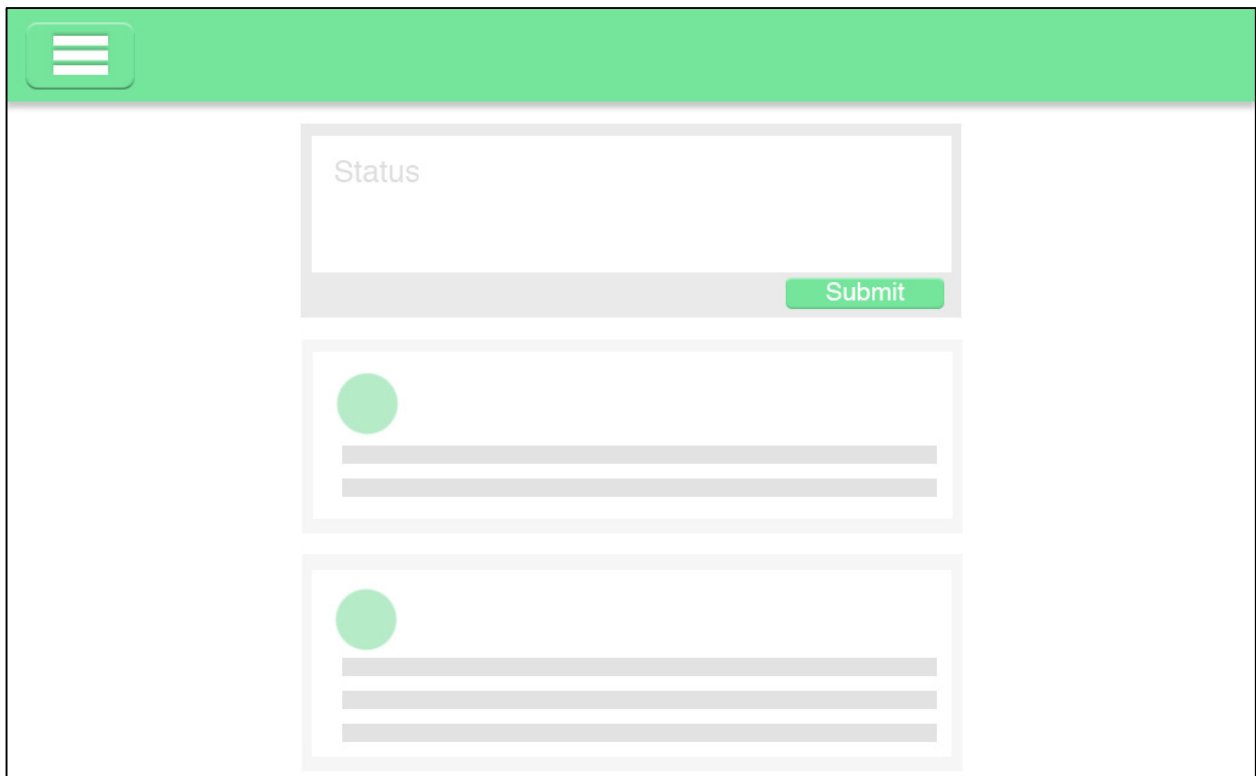
UI Mockups

Create New Account

Email

Password

Username

Submit Form

Status

Submit

Sequence Diagram 1

UC-03 Post to Feed
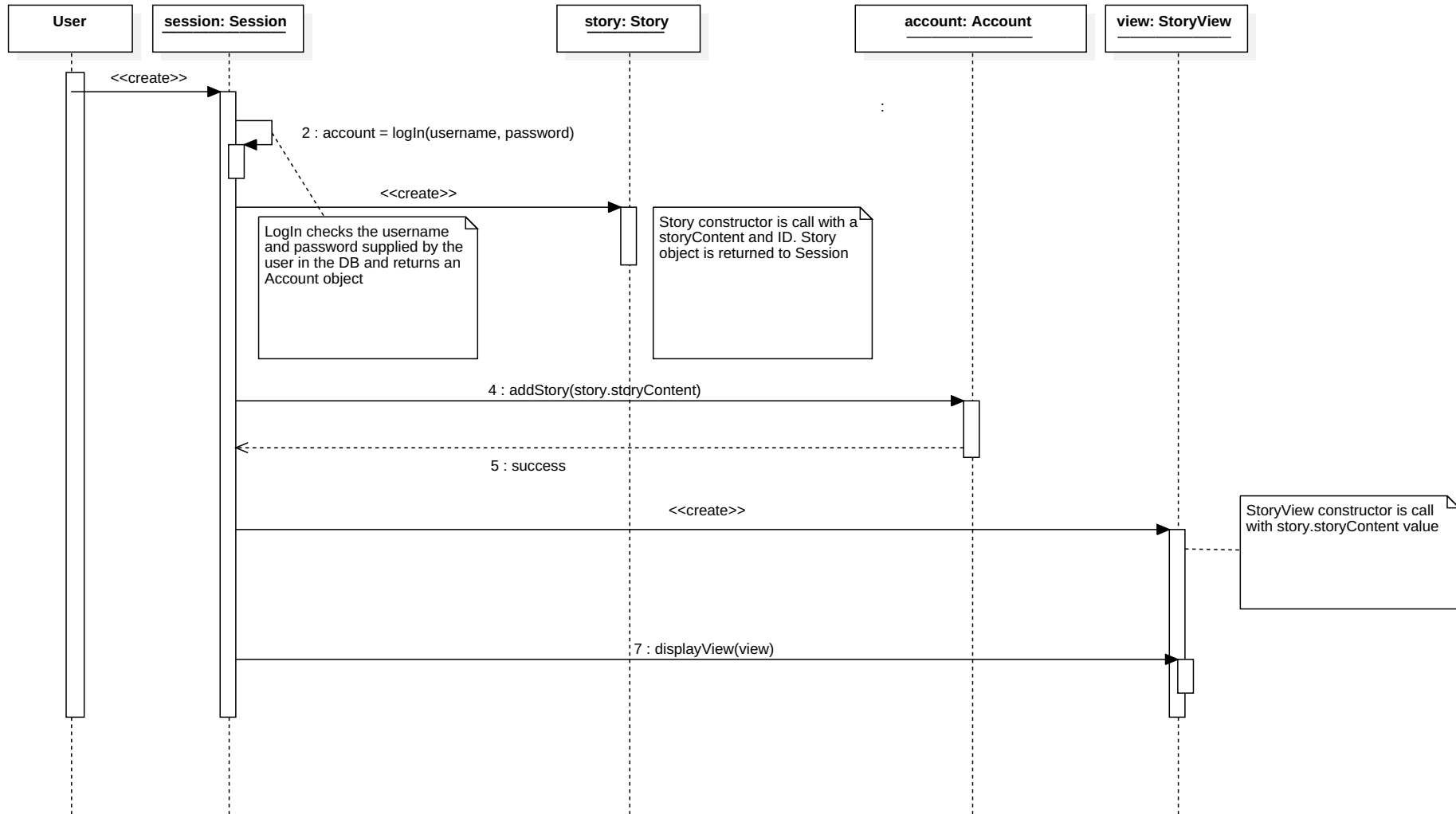
Sequence Diagram 2

UC-5 Create Account

| User | session: Session | account: Account | view: CreateAccountFormView |

<<create>>

<<create>>

accountExists =
checkIfAccountAlreadyExists(email, userName)

inputsAreValid = checkIfInputsAreValid(email,
password, userName)

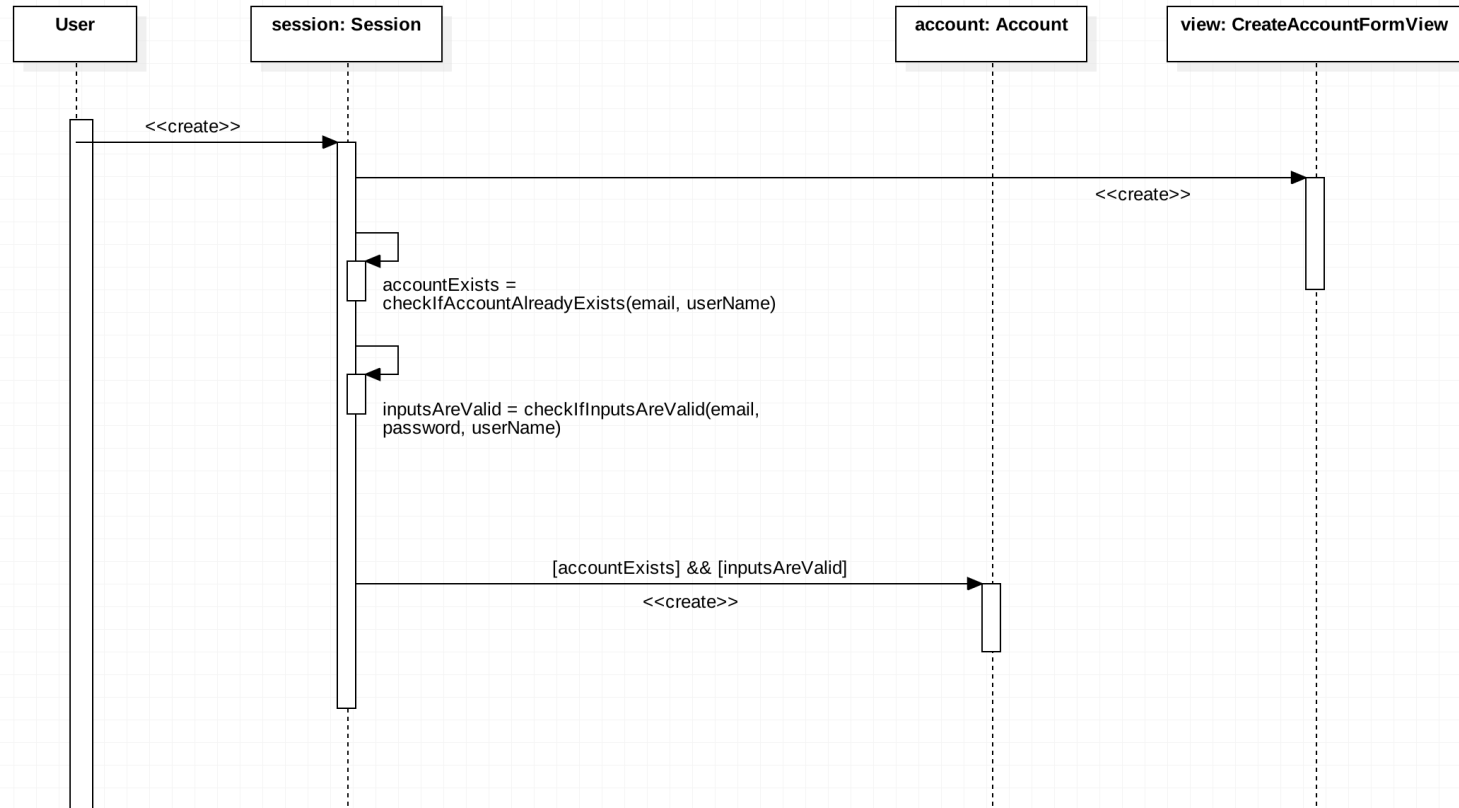[accountExists] && [inputsAreValid]

<<create>>

Class Diagram

«interface» IView
+displayView(view: View): void

«interface» ISession
+populateFeed(listOfFriends: List of Int): Boolean
+logIn(userName: String, password: String): Account
+createAccount(email: String, password: String, userName: String): Account
+checkIfAccountAlreadyExists(email: String, userName: String): Boolean
+checkIfInputsAreValid(email: String, password: String, userName: String): Boolean

«interface» IAccount
+addStory(storyContent: String): Boolean
+editStory(storyID: Int): Boolean
+deleteStory(storyID: Int): Boolean
+deleteAccount(accountID: Int): Boolean

«interface» IStory
+addComment(commentID: Int): Boolean
+deleteComment(commentID: Int): Boolean

«interface» IComment
+editComment(_commentID: Int, _commentContent: String): Boolean

View
-width: Int
-height: Int

Session
-account: Account
-listOfStories: List of Stories
-view: View

Account
-accountID: Int
-email: String
-password: String
-userName: String
-listOfStories: List of Story

Story
-storyID: Int
-storyContent: String
-listOfComments: List of Comment

Comment
-commentID: Int
-commentContent: String

CreateAccountFormView
-email: String
-userName: String
-password: String

StoryView
-story: String

AdminAccount