COMP 1531 - Software Engineering Fundamentals

Term 3 – 2020

Iteration 3 - Short Report

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1st Target User:

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Analysis & Specification - Use Cases

User Stories:

1) As a student, I want to crop pictures so that my group partners don't have to look at extra, unnecessary information.
2) As a student, I want to crop pictures so that file sizes can be reduced and image downloads are faster for my colleagues.
3) As a student, I want to crop pictures so I can hide confidential/private information from a screenshot that I don't want my group partners to see.
4) As a student, I want to crop pictures so that file sizes can be reduced and they occupy less space on storage.

Acceptance Criteria For Each Story:

1) **As a student, I want to crop pictures so that my group partners don't have to look at extra, unnecessary information.**
   - The picture is uploaded to the channel by clicking a toggle next to the message entry box and selecting the picture to be uploaded.
   - A menu should pop up that contains the placeholder text "Enter coordinates for image cropping".
   - The popup should let the user enter the exact coordinates of the image they want to crop the image to (x1, x2, y1, y2).
   - The placeholder text should disappear as soon as the user starts typing.
   - A preview window should open up to show what the cropped image would look like with the new dimensions once the 4 coordinates are entered.
   - At this point, if a user wishes to modify the dimensions again, they should be able to by entering new coordinates.
   - The image should be cropped and sent to the channel when the user enters the 4 coordinates and clicks enter.
   - The image that was sent should not contain the extra, unnecessary information that was cropped out using the coordinates.

2) **As a student, I want to crop pictures so that file sizes can be reduced and image downloads are faster for my colleagues.**
   - The picture is uploaded to the channel by clicking a toggle next to the message entry box and selecting the picture to be uploaded.
   - A menu should pop up that contains the placeholder text "Enter coordinates for image cropping".
   - The popup should lets the user enter the exact coordinates of the image they want to crop the image to (x1, x2, y1, y2).
   - The placeholder text should disappear as soon as the user starts typing.
   - A preview window should open up to show what the cropped image would look like with the new dimensions once the 4 coordinates are entered.
   - At this point, if a user wishes to modify the dimensions again, they should be able to by entering new coordinates.
   - The image should be cropped and sent to the channel when the user enters the 4 coordinates and clicks enter.
   - The image that was sent should have smaller dimensions than the original picture.
   - The image that was sent should download faster for other users than the original picture.

3) **As a student, I want to crop pictures so I can hide confidential/private information from a screenshot that I don't want my group partners to see.**

- The picture is uploaded to the channel by clicking a toggle next to the message entry box and selecting the picture to be uploaded.
- A menu should pop up that contains the placeholder text "Enter coordinates for image cropping".
- The popup should lets the user enter the exact coordinates of the image they want to crop the image to (x1, x2, y1, y2).
- The placeholder text should disappear as soon as the user starts typing.
- A preview window should open up to show what the cropped image would look like with the new dimensions once the 4 coordinates are entered.
- At this point, if a user wishes to modify the dimensions again, they should be able to by entering new coordinates.
- The image should be cropped and sent to the channel when the user enters the 4 coordinates and clicks enter.
- The image that was sent should not contain the confidential/private information that was cropped out.

4) **As a student, I want to crop pictures so that file sizes can be reduced and they occupy less space on storage.**

- The picture is uploaded to the channel by clicking a toggle next to the message entry box and selecting the picture to be uploaded.
- A menu should pop up that contains the placeholder text "Enter coordinates for image cropping".
- The popup should lets the user enter the exact coordinates of the image they want to crop the image to (x1, x2, y1, y2).
- The placeholder text should disappear as soon as the user starts typing.
- A preview window should open up to show what the cropped image would look like with the new dimensions once the 4 coordinates are entered.
- At this point, if a user wishes to modify the dimensions again, they should be able to by entering new coordinates.
- The image should be cropped and sent to the channel when the user enters the 4 coordinates and clicks enter.
- The image that was sent should occupy less space on storage than the original picture.
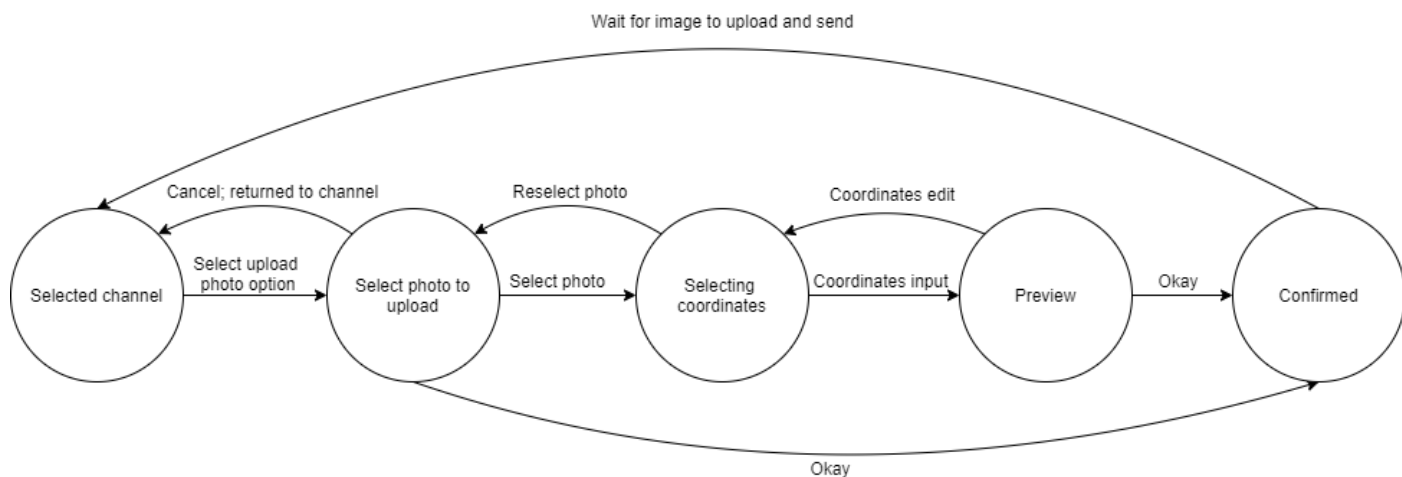
Validation

"The use case accurately describes how I might want to change the dimensions of an image I want to crop. The image preview will help me in assessing if the chosen dimensions are correct. Entering the dimensions manually will be useful on small screen devices like phones where I don't necessarily have the precision of a mouse cursor. File size reduction is also very handy as it would ensure that less storage space would get taken up on my phone." - Ahmed

Interface Design

Function Name	HTTP Method	Parameters	Return type	Exceptions	Description
message/uploadphoto	POST	(token, image_url, x_start, y_start, x_end, y_end)	{ message_id }	**InputError** when any of: • img_url returns an HTTP status other than 200 • any of x_start, y_start, x_end, y_end are not within the dimensions of the image at the URL. • Image uploaded is not a JPG **AccessError** when: • User is not apart of the channel they are uploading a photo to	Given a image url with x and y start and end coordinates, crop the image and upload the photo into the database

Conceptual Modelling (State)

2nd Target User:

Name: Zenne Randerath
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Analysis & Specification - Use Cases

User Stories:

1) As a student, I want to have the option of joining all public text channels of the flockr upon registering so that I do not have to join them individually.
2) As a student, I want to have the option of joining only some text channels of the flockr upon registering so that I do not receive notifications from channels that are irrelevant to me.
3) As a student, I want to be able to leave multiple channels at once without having to navigate to each channel to save time.
4) As a team leader who is the owner of the workspace, I want to be able to join or leave both private and public channels without having to navigate to each channel to save time.

Acceptance Criteria For Each Story:

1) **As a student, I want to have the option of joining all public text channels of the flockr when I first register so that I do not have to join them individually.**
   - When the user first registers into an existing flockr, a menu should pop up with a text 'Please choose the channels you would like to join or leave'
   - All public channels will be listed in the order created underneath this text with a checkbox next to them.
   - The user should be able to scroll further down to view all the channels.
   - Using a checkbox that is separate from the channel lists, the user should be able to choose the option 'Join all public channels' located next to an 'Okay' button at the bottom of the pop up.
   - Selecting this option will automatically check all the checkboxes next to the channels.
   - Unselecting this option will uncheck the checkboxes.
   - The user should be able to return to the main workspace without their selections being recorded by clicking 'Cancel'
   - The user may choose to either click 'Okay' to submit their selections.
   - When their selections are submitted, a confirmation list of all channels the user is part of will be shown.
   - If the user clicks 'Cancel' they should be allowed to reselect checkboxes.
   - If the user clicks 'Save changes', they should automatically join into all public channels.

2) **As a student, I want to have the option of joining only some text channels of the flockr upon registering so that I do not receive notifications from channels that are irrelevant to me.**
   - When the user first registers into an existing flockr, a menu should pop up with a text 'Please choose the channels you would like to join or leave'
   - All public channels will be listed in the order created underneath this text with a checkbox next to them.
   - The user should be able to scroll further down to view all the channels.
   - The checkbox should be checked when the user clicks on the channel they would like to join.
   - The user is able to select as many channels as displayed.
   - The user should be able to return to the main workspace without their selections being recorded by clicking 'Cancel'.
   - Clicking 'Okay' will submit their selections.
   - When their selections are submitted, a confirmation list of all channels the user is part of will be shown.
   - If the user clicks 'Cancel' they should be allowed to reselect checkboxes.
   - If the user clicks 'Save changes', they should automatically join into their selected public channels.

3) As a student, I want to be able to leave multiple channels at once without having to navigate to each channel to save time.
- A pop up window will be displayed by clicking a toggle located at the top of the channel lists.
- This menu will contain the text, 'Please choose the channels you would like to join or leave'.
- All public channels will be listed in the order created underneath this text with a checkbox next to them.
- All channels the user is currently part of will have their checkboxes automatically checked.
- The user is able to scroll through the channels displayed.
- If the user wishes to leave any channels, they may deselect channels that have their checkboxes checked.
- The user should be able to return to the main workspace without their selections being recorded by clicking 'Cancel'.
- Clicking 'Okay' will submit their selections.
- When their selections are submitted, a confirmation list of all channels the user is part of will be shown.
- If the user clicks 'Cancel' they should be allowed to reselect checkboxes.
- If the user clicks 'Save changes'', they should automatically join/leave their selected public channels.

4) As a team leader who is the owner of the flockr, I want to be able to join or leave both private and public channels without having to navigate to each channel to save time.
- A pop up window will be displayed by clicking a toggle located at the top of the channel lists.
- This menu will contain the text at the top, 'Please choose the channels you would like to join or leave'.
- All public and private channel names will be listed in the order with a checkbox next to them.
- All channels the owner is currently part of will have their checkboxes automatically filled.
- The user is able to scroll through all channels displayed.
- The checkbox should be checked when the user clicks on the channel they would like to join.
- If the user wishes to leave any channels, they may deselect channels that have filled checkboxes.
- The user should be able to return to the main workspace without their selections being recorded by clicking 'Cancel'.
- Clicking 'Okay' will submit their selections.
- When their selections are submitted, a confirmation list of all channels the user is part of will be shown.
- If the user clicks 'Cancel' they should be allowed to reselect checkboxes.
- If the user clicks 'Save changes'', they should automatically join/leave their selected channels.

Validation

"This use case pretty much describes how I want to be able to join or leave a lot of channels at once without navigating to each individual channel. Having the menu pop up when I first register into an existing workspace will not only help me join all the channels I want but also allow me to selectively choose it. This will save me some time and be less of a hassle when using the application. Additionally being able to leave several channels whenever I want will be very handy when it comes to reducing notifications from channels that aren't relevant to me." - Zenne

Interface Design

Function Name	HTTP Method	Parameters	Return type	Exceptions	Description
channel/joinmultiple	POST	(token, channel_list)	{}	**InputError** when: • Channel ID(s) within channel list does not exist **AccessError** when: • User attempts to join a channel that is private without permission	Given a list of channels, the caller of the function will be added within each of the channels they have selected.
channel/leavemultiple	POST	(token, channel_list)	{}	**InputError** when: • Channel ID(s) within channel list does not exist **AccessError** when: • User is not a part of channel they are trying to leave	Given a list of channels, the caller of the function will be removed from each of the channels they have selected.
channel/owner/joinall	POST	(token)	{}	**InputError** when: • Channel ID(s) within channel list does not exist **AccessError** when: • User attempts to join a channel that is private	Depending on the Permission ID of the user, the user will be added to all the servers they are able to join, Flockr Owners will be added to all channels and Flockr members will be added to all public channels.

Conceptual Modelling (State)