

Project title: ReportIt

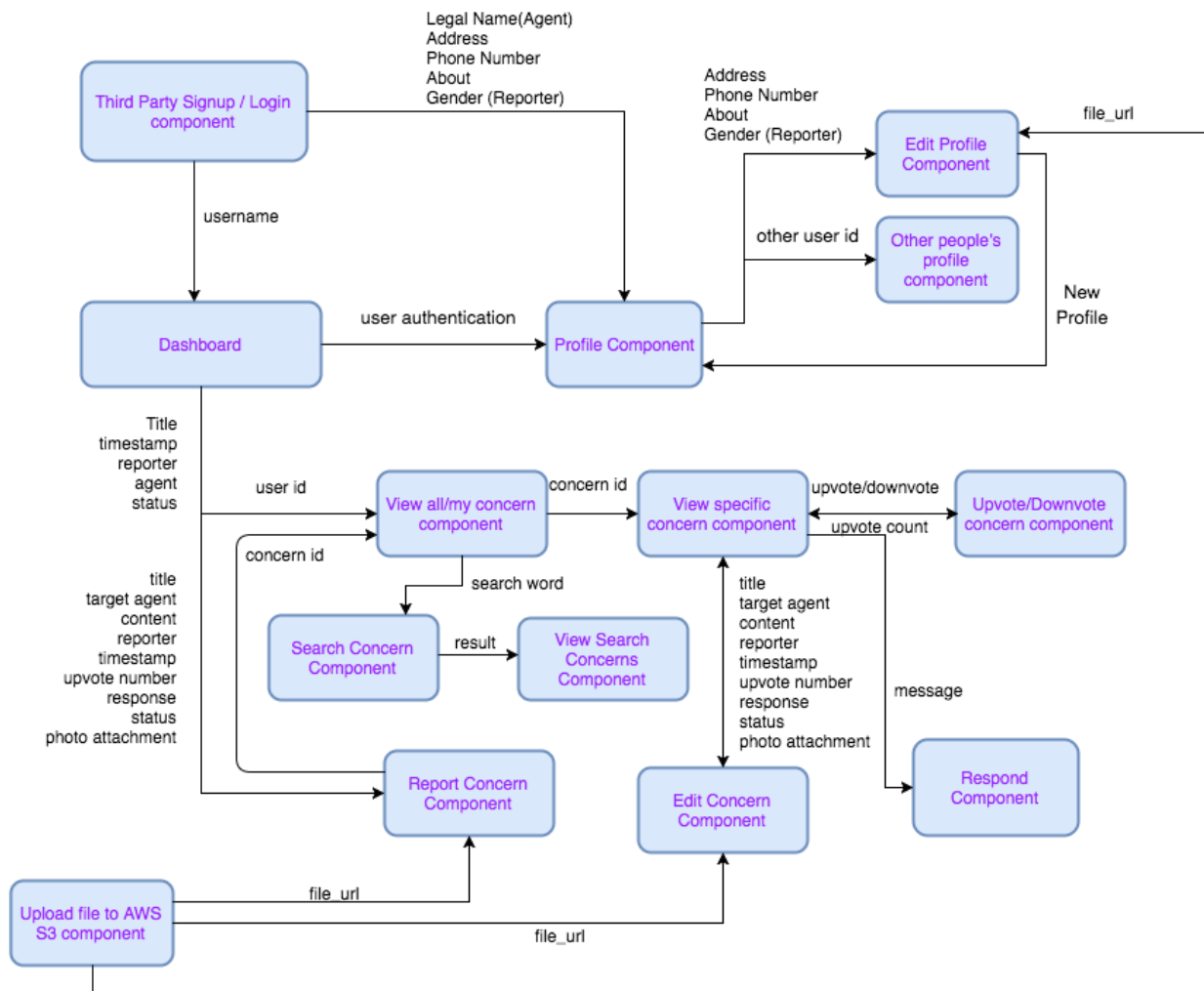
Team #5

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1.1 Define all components

1. Third Party Signup/Login component
2. Dashboard component
3. View my/all concern component
4. View Specific concern component
5. Upvote/Downvote concern component
6. Profile component
7. Report concern component
8. Upload file to AWS S3 component
9. Edit concern component
10. Edit Profile component
11. Respond Concern component
12. Search Concern component
13. Other people's profile component

Sprint 2 Component Diagram



Components:

1. Third Party Signup/Login component:

- third party login (require third party username and password)

2. Dashboard Component(dependent component on Third Party login):

- Third party login (required)
- username (required)

3. View all/my concern Component(dependent component on Report Concern Component)

- title(required, maxlength)
- timestamp(required)
- reporter(required, depend on reporter sign up)
- agents(required, depend on agent sign up)
- status(required)

4. View Specific concern Component(depend component on View all concern Component, Edit Concern Component, Upvote/Downvote Concern Component, Respond Concern Component)

- id (required, depend on view all concern component)
- title(required, depend on edit concern component)
- reporter(required, depend on submit concern component)
- agents(required)
- status(required)
- upvote(required)
- content(required)
- response(required)
- Edit(required)

5. Upvote/Downvote concern Component(depend on View Specific concern Component)

- id(required)
- upvote/downvote(required)
- upvote count(required)

6. Profile Component(all dependent component on agent and reporter sign up, Edit Profile Component):

- legal name(required for agent)
- address(required for agent)
- phone number(required for agent)
- about(required for agent)
- avatar(logo, required for agent)
- password(can be changed)

7. Report Concern Component(dependent component on agent and reporter sign up, AWS, Upload file to AWS S3 component):

- title (required, maxlength)
- target agent (required, depend on sign up agent)
- content (required)
- reporter(depend on login user)
- timestamp(required)
- upvote number(required)
- response(optional)
- status(required)
- attach photo(optional)

8. Upload file to AWS S3 component:

- file (required, maxnum)

- file_url(required)dddd

9. Edit concern component(dependent component on Report Concern Component, Upload file to AWS S3 component)

- title (required, maxlength)
- target agent (required, depend on sign up agent)
- content (required)
- reporter(depend on login user)
- timestamp(required)
- upvote number(required)
- response(optional)
- status(required)
- attach photo(optional)

10. Edit Profile component(dependent component on Profile Component)

- name(changeable)
- username(unchangeable)
- gender(changeable)
- phone number(changeable)
- address(changeable)
- bio(changeable)
- avatar(changeable)

11. Respond Concern component(dependent component on Specific Concern Component)

- agent username(required)
- concern id(required)
- response content(required)

12. Search Concern component

- search word

13. View Search Concern component

- view search result

14. Other people's profile component

- profile avatar
- name
- gender
- phone number
- address
- bio

1.2 Form of incremental testing

We decided to use **bottom-up incremental testing**.

Because:

- It would be more straightforward to create testing input concerning about certain buggy function instead of a whole module.
- It would be a lot easier to observe testing output to confirm the elimination of certain bugs.

2 Incremental and Regression Testing

Increment Test

Defect No.	Description	Severity	How to Correct
1	When reporter login with Google, it will be treated as User and cannot submit concern	1	When the user signs up and login with google, add Reporter object with the given user from Google in the database.
2	"Submit concern" link should not be displayed to Agent (since they are not able to do so)	2	Check for the identity of the agent before responding to HTTP request. Hide the link if the user is an agent.
3	"Upload verification" link should not be displayed to Reporter (since they have no need for doing it)	1	Check for the identity of the agent before responding to HTTP request. Hide the link if the user is a reporter
4	The system administrator is not able to easily access the uploaded file. It would be nice if they can view the file directly through url	3	Record the url to the uploaded file in the File model.
5	Uploaded file should be preferably visible only to the system administrator.	2	Properly hashing the name of the uploaded file, making it hard for the user to "guess" the name of the file in the url
6	The agent is able to upload the same file multiple times when they feel like to do so.	2	Check for all historical entries in database by filename before saving the new upload. If applicable, overwrite the previous upload.
7	A user is able to upvote a concern	1	Record a global count for upvote

	for more than once		counts.
8	Search function to rearrange queryset of concern not iterable	1	Turn Queryset into array, then sort the array and return it back to queryset
9	If there is no reporters created, an agent account cannot be created	1	A dummy reporter group user is created before head.
10	The target agent block in edit concern page is not a selection element but an input box	3	Target agent block is changed to selection.
11	An agent can edit concerns	1	Check the user group to see which group the user belongs to.

Regression Test

Defect No.	Description	Severity	How to Correct
1	After user first login with google and logout, when the user second time login with google, then it will arouse username of reporter not unique error	1	Check whether it is the user first login. Only if it is the first time the user login, then add Reporter object with the given user from Google in the database.
2	Agent is not able to directly click the "Submit concern" button, but they are still able to submit concern by visiting the corresponding url.	1	Check user's identity on backend. Implement the corresponding error message if applicable.
3	The admin page crashes when we attempt to query the details about the File object.	1	Properly migrate all of the database entry to the newly defined database schema. (It seems something is wrong with "makemigrations")
4	The system administrator is not able to access the url even after the modification on File models	1	Sometimes the network latency would cause the file failed to be uploaded. It's necessary to delay the "expiration time" of upload signed request
5	Recording only a flag on the user contains too limited information to record upvote history	2	Record a list of user historically upvoted the concern in database.
6	If a dummy reporter group user is created, this user is never used and may cause confusions	1	When first signing up either group of user, both reporter and agent groups are created
7	If same file is checked using filename, different files with same filename will be stopped from uploading	2	Check the file using md5
8	If search on the any keyword, the display concern component show concern object not iterative error. Return nothing on search concern display component	1	After searching on the key word, concern about should be turn into an array and sorted. Then return to search concern display component.

9	A edit concern component can be accessible by view specific concern component in the agent view part.	1	In the view specific concern component, restrict the edit concern component button by only concern reporter editable only.
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3 Update Product Backlog

Backlog ID	Functional Requirement	Hours	Status	New Status
01	As a user, I would like to sign up a reporter/agent account	5	Sprint 1	Complete in sprint1
02	As a user, I would like to have a profile picture	3	Sprint 1	Complete in sprint1
03	As a user, I would like to be able to change my password	5	Sprint 1	Complete in sprint1
04	As a user, I would like to reset password when I forget my password	2	Sprint 1	Complete in sprint1
05	As a user, I would like to view profile of other users.	4	Sprint 2	Planned for sprint2
06	As a user, I would like to logout my account securely	2	Sprint 1	Complete in sprint1
07	As a user, I would like to have my profile page	3	Sprint 2	Complete in sprint 1
08	As a user, I would like to view all the concerns	4	Sprint 2	Complete in sprint 1
09	As a user, I would like to change my profile page	5	Sprint 2	Completed in sprint 2
10	As a user, I would like to view all the concerns I sent	3	Sprint 2	Complete in sprint 1
11	As a user, I would like to see timestamps for every concern.	4	Sprint 2	Complete in sprint 1
12	As an user, I would like to maintain a history events that I have dealt with.	8	Sprint 2	Planned for sprint2
13	As a user, I would like to look the statistics of the all concerns and agent, including how many reports has been filed, how many reports has been resolved, how much time it takes for each resolved complaint.	5	Sprint 2	Planned for sprint2

14	As a reporter, I would like to sign up with Facebook account	4	Sprint 2	Planned for sprint2
15	As a reporter, I would like to sign up with Google+ account	1	Sprint 2	Completed in sprint2
16	As a reporter, I would like to submit concern to one or multiple community agents	10	Sprint 1	Complete in sprint1
17	As a reporter, I would like to upload image attachment to the agent	2	Sprint 2	Planned for sprint2
18	As a reporter, I would like to downvote concerns I think to harm the society	3	Sprint 2	Complete in sprint2
19	As a reporter, I would like to search for concerns based on keywords	15	Sprint 2	Complete in sprint2
20	As a reporter, I would like to upvote the concerns I like	6	Sprint 2	Complete in sprint2
21	As a reporter, I would like to delete my concern	1	Sprint 1	Complete in sprint1
22	As a reporter, I would like to edit my concern	5	Sprint 1	Complete in sprint1
23	As a reporter, I would like to mark the best answer for my concern	4	Sprint 2	Planned for sprint2
24	As an agent, I would like to view all incoming concerns	3	Sprint 2	Complete in sprint2
25	As an agent, I would like to respond to incoming concerns	5	Sprint 2	Planned for sprint2
26	As an agent, I would like to be notified for new concerns by email	6	Sprint 2	Planned for sprint2

27	As an agent, I would like to upload my proof file while signing up for admin to inspect	5	Sprint 2	Planned for sprint2
28	As an agent, I would like to redirect mis-directed concerns to other agents	4	Sprint 2	Planned for sprint2
29	As an admin, I would like to verify agent's information to avoid fake agent accounts.	6	Sprint 1	Complete in sprint1
30	As an admin, I would like to delete spam concerns which have negative impact to the society	4	Sprint 2	Planned for sprint2
31	As an agent, If two reporter file similar concerns, I would like to mark them as duplicate.	10	Sprint 2	Planned for sprint2
32	As an agent, I want to add "Resolve" flag for a resolved problem.	8	Sprint 2	Complete in Sprint 2

