

Project title: ReportIt

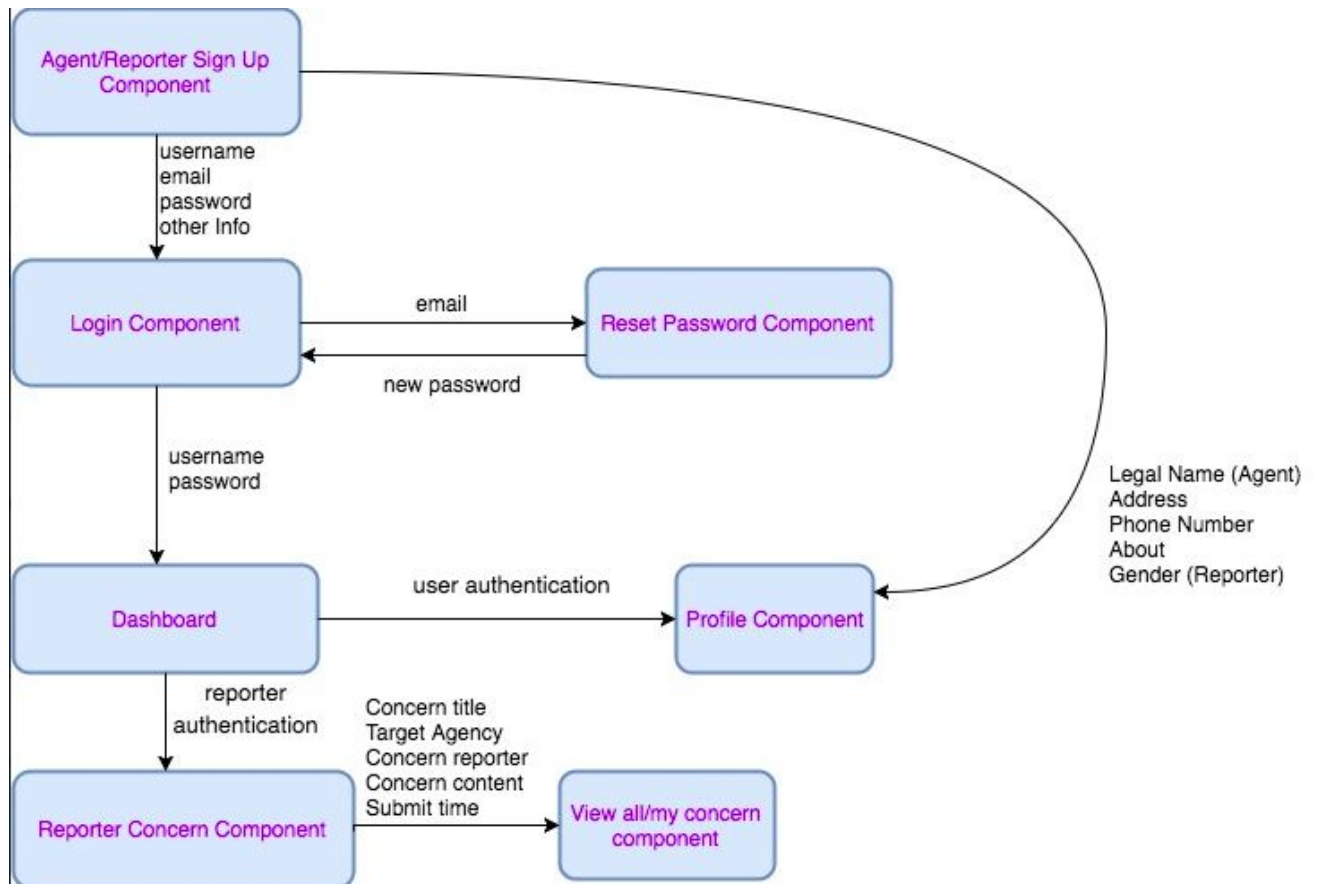
Team #5

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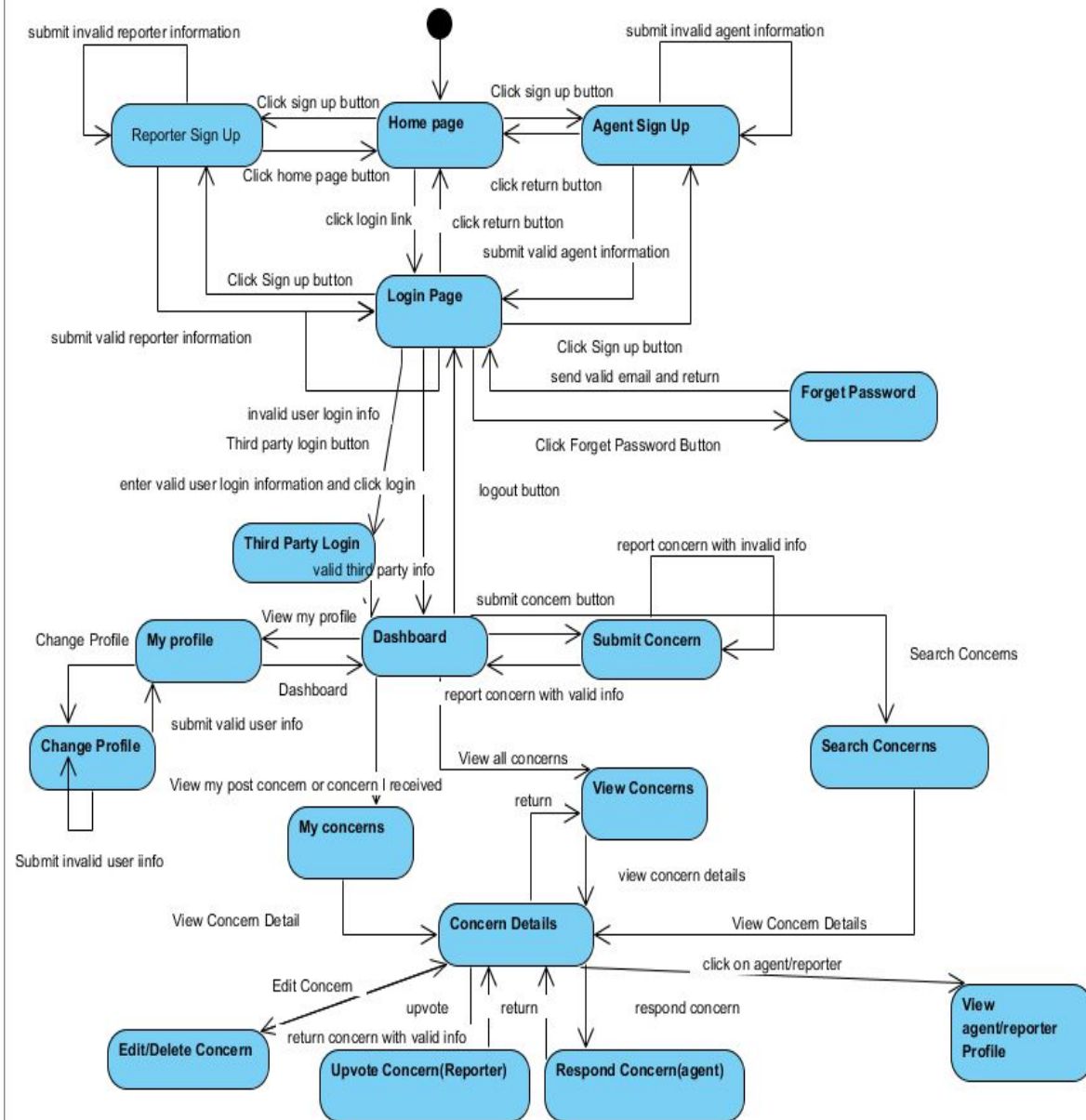
1.1 Define all components

1. Login component
2. Agent/Reporter Signup component
3. Dashboard component
4. View my/all concern component
5. Profile component
6. Report concern component
7. Reset password component

Component Diagram



Flow Diagram



Components:

1. Login(depend on agent/reporter sign up):

- password (required, match)
- username (required, match)

2.1 Reporter Sign up Component:

- username(unique, required)
- email(unique, required, match email format)
- password(required, password should be strong)
- legal name(optional)
- address(optional)
- phone number(optional)
- about(optional)

2.2 Agent Sign up Component:

- username(unique, required)
- email(unique, required)
- password(required)
- legal name(required)
- address(required)
- phone number(required)
- about(required)
- Agent Verification File(required)
- Agent Badge Logo(required)

3. Dashboard Component(dependent component on login):

- login (required)

4. View all/my concern Component(depend 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)

5. Profile Page(all dependent component on agent and reporter sign up):

- legal name(required for agent)
- address(required for agent)
- phone number(required for agent)
- about(required for agent)

6. Report Concern Component(dependent component on agent and reporter sign up):

- 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)

7. Reset Password Component(depend on user/reporter sign up)

- Email(required, depend on sign up)

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.	The web page does not complain when "legal_name" is not entered	1	Modify the models.py to make "legal_name" field required
2.	The submitted time for the concern submitted should be properly recorded	1	Modify the models.py to add "upload_time" field
3.	The website does not regulate on password's level of complexity, and makes user's password potentially endanger.	2	Password strength check is made more strict
4.	When a duplicated email is used for signup/reset password, the signup/reset password can be	1	Signup/reset password will be rejected if duplicate email address is used

	approved.		
5.	The website is unable to properly reflect the targeted agent when viewing “my submitted concern” or “all concern” (when excess amount of targeted agent is presented).	3	Modify the frontend page and find a better way of representation for large set of targeted agents. (Dropdown list, for example)
6.	When signing up as an Agent, the verification file/logo file link are not checked to see if the file is in correct format	2	Do a string check on the urls provided, to see if it have a valid file extension
7.	The concern submission page does not have upload file feature supporting concerns	3	Add a file upload feature in concern submission page
8.	The user is able to enter invalid agent name in the submission of concern.	3	Implement a drop down list with search functionality to replace the current text input.
9.	Profile page does not correctly reflect user's information.	3	Correctly implement the profile page that supports and displays Django template
10.	The user is allowed to access the dashboard without logging in	3	Redirect the user to 404 page when not logged in
11.	Click on “view all concern” tab will lead to program crash	3	Display all concerns submitted by all registered users in all concern page

Regression Test

Defect No.	Description	Severity	How to Correct
1.	Making the “legal_name” field required causes the profile page to crash on loading	1	Provide a default value for historical entries in the database, and require user to add the value in profile page
2.	The new concern submitted has a default value of “False” on targeted agent, but it shouldn't be	1	Modify the models.py to make “legal_name” field not having default value

3.	There exists a possibility of malicious user guess the right password even after the enforcement.	1	Set up a rate limit for each request input into the server. Stop accepting request from certain IP address if it is determined that certain address has sent way too many requests.
4.	Fixing duplicated email cannot fix history records with duplicate emails are still in database	3	Create a bad email list, and when this user login, prompt him for reset email
5.	If duplicated email is fixed, when clicking "forget password" and sending email to the original duplicated email, the email sent will fail because of duplicated same email.	3	Create a bad email list, and when this user login, prompt him for reset email to fix this bug.
6.	Adding the file upload feature leads to possible upload defects	2	Be careful of upload feature implementation, like checking the file format, file size
7.	Profile page crashes when an admin account try to enter profile page	1	Add a check to see if current user is admin and show corresponding content
8.	When not logged in user is redirected to 404 page, the user may be confused about where to go	2	The user is redirected to login page when he or she has not logged in and try to access dashboard
9	All concern page does not contain timestamps, votes etc. features	3	Add those statistics to all concern page.

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	Planned for sprint2
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	Planned for 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	Planned for sprint2
19	As a reporter, I would like to search for concerns based on keywords	15	Sprint 2	Planned for sprint2
20	As a reporter, I would like to upvote the concerns I like	6	Sprint 2	Planned for 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	Planned for 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	4	Sprint 2	Planned for

	society			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	Planned for sprint2

