CS 488: Project Description, User Stories, and Glossary

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Part 1: Project Description

The project will be a robust notification system designed to promptly inform residents about emergencies, road closures, and local events. This project will be compatible with both iOS and Android operating systems, empowering the Welcome to Cheney board and other key stakeholders to efficiently broadcast essential information through push notifications. Our goal is to enhance communication and ensure swift awareness in critical situations.

Part 2: User Stories Based on the project description, add the initial user stories of this form

1. As an admin I want to be able to create posts so that I can share information with the viewers on the app.

2. As an admin I want to be able to edit posts I create so that information can be updated and/or corrected.

3. As an admin I want to be able to delete posts so that if information is no longer relevant it can be removed.

4. As an admin I want to add tags to posts so that viewers who are interested in the tagged content will be notified when the post becomes public.

5. As an admin I want users to be able to share whether they're interested in attending an event so that the expected turn out can be easily determined.

6. As an admin I want to be able to approve poster accounts, so that I can ensure that accounts that can create and edit posts are vetted and legitimate.

7. As an admin I want to be able to delete other poster or viewer accounts so that I can maintain the integrity of the application.

8. As a viewer I want to be able to specify which tags interest me so that I can receive information relative to my interests.

9. As a viewer I want to be notified when a post regarding one of my interests is made public so that I can review that information as soon as possible.

10. As a user I want a personal feed so that I can browse all posts with tags relevant to my interests.

11. As a user I want to be able to have access to a feed where I can see all posts, so that I can explore information that I may not have known interests me.

12. As a user I want to be able to sort all posts by multiple metrics (most recent, tags, title, ect.) so that I can navigate all the posts more easily.

13. As a viewer I want to be able to fill out a Specific Fillable Form (SFF) for admins to review so that they can share that information if they deem it appropriate to share with other viewers

14. As a user I want to be able to create an account using a unique username and a password so that I can have access to the application and its features

15. As a user I want to be able to change my password so that I can maintain the security of my account.

16. As a user I want to be able to delete my own account so that I can remove my personal information off the application.

17. As an approved poster I want to be able to create posts so that I can share information about my business or organization with the viewers.

18. As an approved poster I want to be able to edit my posts so that I can update the information being shared.

19. As an approved poster I want to be able to delete my posts so that I can remove information that is no longer relevant.

Part 3: Glossary
- iOS: The operating system that iPhones and iPads use for their app development.
- Android: Operating system that most other smartphones use(Google's Pixel, Samsungs and more).
- Tags: A way to group and categorize content.

- Admin: A user that has control and management over the content of the application.
- Poster: A verified business or entity that has privileges to post content.
- Viewer: Someone that just interacts with the application with viewing privileges only.
- User: A general term for anyone who is using the application. This can be a viewer, poster, admin, etc.

You and your partner need to define the basis of a project according to these criteria. Be brief, but provide enough detail so I can make sense of what you're proposing.

1. Present the problem statement. For example, an average homeowner designing a new house wants to play with options for installing solar panels.

The people of cheney want to know about events and alerts of Cheney, and the organizations of Cheney want to let them know about them

2. Explain who the intended user is. It can be you or a fictitious entity you will represent. For example, the user is a homeowner building a new house.

The general public of Cheney

3. Describe why the user has this problem. For example, there are decisions to make and many options, which are difficult to manage for the average user.

There is no widely used and common method to communicate between the organizations/businesses and the public

4. Describe how a solution would benefit the user. For example, maximizing the solar generation while minimizing the cost saves the homeowner money. Stay within the scope of the problem; e.g., do not consider climate change because the connection is too indirect.

It would allow the public to learn more about events and things within Cheney that will happen, and to be aware of important things happening in the moment

5. Describe the general flow for addressing the problem. The existing (or imagined) flow does not have to involve a computation solution. For example, the user defines the property and house layout and expected energy needs, then the system proposes solutions that best satisfy the criteria. This used to be done on paper by expensive expert contractors.

The posters would define an event or alert to the app, and the app would push notifications to everyone for an alert, or anyone related/subscribed to however the event is relevant

6. What is the general nature of the solution? For example, app, standalone program, website, plug-in.

Mobile app

7. List the general software components you envision playing a role. For example, web server, database, game engine.

Server for the app, and a small database for the users and saved/posted events, businesses etc

8. List the general hardware components you envision playing a role. For example, drone, VR headset, tablet. You are responsible for your own hardware, so be reasonable.

Mostly windows computers for coding, a mac for building/testing, and likely actual phones towards the end

9. Describe similar solutions, if any, and justify (or make up a justification) for why they are inadequate. For example, Project XYZ does something similar, but its cost and complexity are prohibitive. Do not get detailed with software engineering aspects. Requirements and specifications, for example, come later in the process, unless they are directly relevant to the proposal and have a justification. For example, an Android app because you have an Android device and want to become an app developer

There is currently a website for the city of cheney, but this is inadequate because it does not have notifications, and people won't check a website 24/7.

There is also a facebook page, but that is not widely used, and doesn't differentiate from less important facebook notifications