COMMUNITY

Do More and Prosper (DMP) Software

System Proposal - Part 1 + 2

Prepared for:

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Executive Summary

The DMP software is a tool that provides a way for people to find nearby events, jobs, interest groups, local news, and political decision-making opportunities. People have to sign up as a regular user or poster to use the software. Posters can be individuals, groups, or workers of a company. The DMP app has sections for events, jobs, interest groups, life-hacks, public sports meetups, local news, local politics, and a planner. Posters can post things like new events, jobs, meet-ups, etc. Users can also post to these sections as posters but will have limited functionality. While all the sections include posts from others, the planner will be a private section for each user. Users can choose to add whatever they signed up for to their planner if they want to be reminded of it.

The DMP's goal is to fix issues such as excessive technology use, time-consuming navigations between different websites, and the effects brought about by the recent covid epidemic. The DMP wants to help people by putting some of their most important tasks in one place. By doing this, the DMP hopes to help people organize their tasks and save time. The DMP wants to help people get active, increase their interaction with others, and help them make positive changes to their community. The local politics section has a feature that lets people check out the current agendas of their local government and how they can participate in the decision-making process. That section was added to the DMP with the idea of citizens being able to make the changes they want to see in their community.

This system proposal describes most of the software's contents and how they should be implemented. Currently, the makers of the DMP software do not have all the resources available to implement the DMP as it was hoped to be. There are some risks and constraints, which are mentioned in the constraints and feasibility sections. But there are ways to work around those. At most, the MVP product is feasible, and considering the scope of the DMP, the MVP is pretty good.

1.0 Introduction and Overview

1.1 Problem Statement

These days people spend a lot of time on their technological devices and have less time for human-to-human interaction. With technology almost touching every part of our lives, work-related and non-work-related online tasks are increasing. Additionally, the recent epidemic, covid, has affected many people's lives. Some people have lost their jobs and are recently trying to get them back or find another one. Some people's businesses have been affected because their businesses couldn't thrive during the time of covid. Covid may be leaving the scene, but its effects are still felt in some places.

There is a need to fix these issues brought about by the increasing use of technology and covid. That is where this software comes in. This software helps people find jobs, interact and connect with others, and organize their day-to-day tasks. Additionally, it includes other essential features for strengthening society's vital cultures, values, and norms.

1.2 Project Vision and Scope

The vision of this software is to help people find jobs, interact more with other humans to lessen screen use effects, organize their life, and execute their tasks efficiently by using a planner. It also hopes to help people be active, learn essential life lessons, be informed, and be part of the decision-making in their community. The software provides those opportunities, and users have to cease them by applying to jobs, signing up for events, requesting to join groups, etc. The application focuses on the local aspects of a community but doesn't want to limit users to only being able to participate locally. Users can search for and participate in activities in a community besides theirs as long as they qualify for those activities. News is the only section that includes city, state, and national level posts.

The system believes active political participation will strengthen people's community and fix other issues in a community that are not easily identified. By implementing a background check and having a strong security system, the software wants to provide a safe and stress-free environment for users to engage in activities.

1.3 Requirements Summary

The DMP app will have sections for the aforementioned essentials, such as events, jobs, interest groups, public meetups, life hacks, news, local politics, and a planner. It would also have features such as messaging, notifications, saved posts, FAQ page, help, profile page, settings, policy, contact us page, etc.

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The business requirements are:
- The software must gather the user's personal information and run a background check
- After three days, the software must let users know the results of the background check, which will decide whether users will have an account or not
- The software must implement a strong security system that will encourage users to engage in activities without worries
  - The software must check and investigate flags, reports, suspicious activities, and posts deemed inappropriate
  - If a user is found guilty of the above, then the user must be removed
- The software must let users browse posts and act with posts
- The software must allow users to interact with posters
- The software must allow users to sign up for events, submit applications, or follow the links provided to finish application processes.
- The software must record user's data to help users utilize features such as adding an event they signed up for to their planners
  - The software must record user's data to be able to utilize all the features effectively
  - The software must work with third parties to keep track of user's data s they leave the site following a third-party link
  - The software must allow users to communicate with third parties
  - The software must oversee the user's activities in the application and with third parties

1.4 Stakeholders and Interests

There are various stakeholders for this software. As the owner, I hold a great stake in this software. So far, it is just me, and I don't have any sponsors, donors, or business support. But once the software is developed, potential stakeholders that would hold great shares would-be sponsors, companies who want to post their available jobs, facilitators who want to post their events and the like, local government agencies, employees, and news stations.

A list of the stakeholders are:

- Me (Ammanuel Beyene) – owner
- All types of Users
  - Event coordinators: individuals, groups, or company lead
  - Job coordinators: individuals, partners, small companies, large companies
  - Users: regular user, administrator
  - Local government
  - News stations

- o Sponsors
  - Prospective employees
  - Citizens of the community

The software is essential and beneficial for a community as a whole. Therefore, once the software starts running and has several users, an entire community will be affected and will benefit from the software.

1.5 Expected Costs and Benefits

1.5.1 Costs

As a startup app, developing this software could cost about $50,000.00. Besides the cost of developing, other costs could come from working out the business and legal agreements with third-party companies. Additionally, once the software is up and running, there will be costs for maintenance, customer support, adding databases, tighter security measures, employee payments, etc. These costs could become a monthly cost could be a monthly cost that depends on the number of users and popularity of the application.

- Developing costs
- Implementing on various platforms
- Getting a license for the software
- Hardware costs for running the software
- Working out a business partnership
- Legal and required agreements
- Implementing strong security and running a background check for every user
- Maintaining the application
- Paying employees
- Updating software and tools
- Having offices and branches
- Server and database
- Electricity and WIFI usage

1.5.2 Benefits

The benefits can come from many areas and can be tangible or intangible.

Tangible benefits
- Benefits from Advertisement
- Benefits from opportunities created by software's popularity

- Benefits from doners
- Benefits from a business partnership with third parties

Intangible Benefits
- Fixing covid's effects, helping people get jobs
- Helping people get healthy by going out and getting active
- Help people interact with others
- Helping the technology crisis with more human-to-human interaction
- Helping people organize their lives by organizing their essential tasks and providing a good planner
- Strengthening human's core cultural, personal, and societal values and practices
- Making the world a better place one community at a time
- Making people feel thankful and grateful for their lives
- Making the community as a whole better by encouraging citizens' engagement in political decision makings

1.6 Constraints

This software would be easy to implement once the legal documents, agreements, and contracts are properly made. The main constraints of developing the software and starting the business are working out the legal requirements, competing with similar software, and getting users to sign up.

A list of the constraints:
- Getting the legal requirements for developing the application
- The software must abide by the law required for working with local politics and news stations
- The software must make sure that no copyright laws are being violated by any of the posts
- Cost feasibility should be attainable. Otherwise, some features may be removed
- The software must optimize successful background checks and effectively monitor suspicious activities
- It may be difficult to implement a good background checking system
- Implementing good system security
- The software must be compatible with current browser and phone models
- It might be hard to get people to sign up for the application by agreeing to wait for the three-day background checking period

Proposed solutions:
- Calculate costs for the minimum viable product and the maximum viable product

- Calculate costs to create the application with the constraints met and, if higher than possible, reduce some of the app's functionalities or remove some of the app's sections along with their functionalities
- Use cheap tools and resources to start the application and once business is good, update the software to use better tools
- Employ up to date technology to be able to work on current models

1.7 Recommendation

Upon receiving this document, besides learning about the software's components, functionalities, and how it fulfills its purpose, I hope the users can get all the information they want to know about the software. After reading this document, I want the readers to give any comments, feedback, or suggestions they have about the software and its functionalities. If there is anything they would like to be added, changed, or removed, any suggestions are welcome.

- Read and understand the software, what it is, its purpose, its components
- Get an idea of how the software works
- Learn about the software's vision, scope, benefits, costs, important features, functionalities,
- After reading it, readers can give feedback and suggestions about the software, what things they like, and what things they don't like.
  - They can give comments about what they would like to be added
  - They can also give comments about what they would like not to be removed but improved

1.8 Document Overview

In the rest of this document, there will be organized descriptions of the following:

1. Project initiation request: This is a copy of the initial request

2. Various types of feasibility assessments and results: This section includes feasibility assessments for the software and the results according to the types of feasibilities

3. Requirement definition: This section includes the functional, data, and non-functional requirements for the software

4. Requirements Model: This section includes the use-case diagram and use-case descriptions along with a helpful table for identifying symbols and their meanings.

5. System Evolution: This section includes any possible future modifications of the software

6. Conclusions and recommendations: This section includes conclusions of the system proposal's contents and recommendations on the software and its implementation

7. Appendices: Includes abbreviations used and definitions for the abbreviations

8. Glossary: Includes technical terms, business terms, and abbreviations used and their definitions

9. Bibliography: included the citations of the websites used

2.0 System Initiation

PIR-<u>00000</u> *[PIR Number to be assigned by the Project Office]*   Project Initiation Request
(PIR) – L1 v4.0
Project Name: **DoMoreAndProsper**   Student Name: ***Ammanuel Beyene***

This Project Initiation Request (PIR) is to be completed for all requests expected to require over 40 hours of effort or over 4 weeks of total duration. For larger requests requiring over 40 person-days or estimated project costs greater than $2,000, this template is used to assess the project's feasibility and get approval to scope the proposed project.
If approved, the Level 2 template (Project Proposal: Part 1 and Part 2) must then be completed.
NOTE: <u>Sections 0-4 are required</u>. Section 5 is optional, but any ideas on estimating costs should be included. **<u>Expand each part in this template as needed.</u>** [Replace the *italic* prompts with your answers/information.]

0. General Project Information

Project Name:	*DoMoreAndProsper*
Two Sentence Request Description:	*These days, people spend a lot of time on their technology devices. People of this age also don't seem to engage with others or their community as they should. Additionally, most people affected by covid seek jobs, relief, and a way to get back on track. And in general, there are so many things going on nowadays that it is hard to keep track of everything.* *The DoMoreAndProsper app will help people do things such as engage with their community, be more active, learn essential pieces of information, stay up to date with news, find jobs, volunteer, participate in local politics, and plan their schedules to carry out their responsibilities more efficiently.*
Requested Launch Date(s):	*By 01/20/2023*
Department(s) Affected By Project:	*Departments affected by this project are:* ▪ *Anyone who uses the app* ▪ *Companies who are hiring* ▪ *Event coordinators* ▪ *Pick-up game enthusiasts* ▪ *News sources* ▪ *Job seekers* ▪ *Interest group seekers* ▪ *Activity seekers*

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	▪ *Planners* ▪ *Owners of the app.*
Project's Customers:	*The customers of this project are everyone.* ▪ *Anyone who wants to find events and activities can use this app to find nearby events and activities or by address.* ▪ *Anyone seeking a job can use this app to find employment.* ▪ *Anyone who wants to learn life hacks or listen to the news can use this app.* ▪ *Anyone who wants to meet others interested in similar activities can use this app.* ▪ *Anyone who wants to have an organized planner can use this app.* ▪ *Anyone who wants to meet other pick-up game players can use this app.* *In addition, companies who want to post their jobs can use this app.* ▪ *Anyone who wants help with a job and is willing to pay people for it can use this app.* ▪ *Anyone who wants to check out local, national, and global news can use this app.* ▪ *Anyone hosting an event, pick-up game, or interest group meeting can use this app.*
Date Request Submitted:	*April 14, 2022*

1. Project Sponsor and Manager

Project Sponsor

Name:	Andy Cameron
Title:	Professor
Department:	Computer Science - SPU
eMail:	acameron@spu.edu

Business Project Manager & Requestor

Name:	Ammanuel Beyene
Title:	Student
Department:	Computer Science - SPU
eMail:	Beyenea1@spu.edu

2. Business Problem or Opportunity: The motivation for this request

Describe the problem or opportunity that you would like to solve. Include a simple, high-level description of this request's business problems or opportunities. Focus on the problem or opportunity, not the solution. Be sure to include any date-related dependencies or needs of the project.

The why and what? (Do not include the how at this stage.)

- *These days, people spend a lot of time on their phones and technological devices. Some of the reasons for that include the fact that there are many things people need to view on their phones and can view on their phones. And sometimes, carrying out some specific tasks could require checking different web pages and doing various things. Another issue is that people are not as engaged with others as they used to be. One of the reasons for that is the fact that there are many things to do these days that keep people busy, such as work, family responsibilities, social media, the American dream, etc. Additionally, post covid, some people need to get their jobs back and be able to support themselves, besides engaging with loved ones and friends. It is also apparent that many people don't participate in their community's decision-making.*

- *Some apparent solutions to the issues I described above are spending less time with technology, organizing tasks, and planning schedules appropriately to carry out their responsibilities more effectively. Moreover, they need to participate in events, meet people, join interest groups, keep up with news, and participate in local politics. They need to better themselves by learning information and finding jobs, mainly post covid.*

- *The solutions mentioned above are essential for people's health. They are necessary to better people's lives and raise a community's economy. Most importantly, they are helpful to people who have been displaced or affected by covid and need to get back on their feet.*

- *Therefore, to implement the solutions, I came up with this app that helps people find essential things such as events, games, jobs, interest groups, and life hacks. It would also have sections for checking local, national, and global news. It would have sections for finding out how to help their community and themselves by participating in local politics and decision-making. And lastly, it would have a planner users can use to plan their tasks and responsibilities.*

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3. Justification, Impact, and Importance

What is the financial impact and justification for this request? How will the investment of time, resources, and capital be returned to our company? (Please note any contractual or regulatory requirements associated with the request. If you have an NPV, IRR, or ROI calculation, please provide the link(s) in this section.)

Assumptions

▪ *Include at least two. Add more rows to each table as needed.*
▪ Assumes people spend too much time on their technological device
▪ Assumes people need to get back on their feet after being affected by covid and the complications it brought
▪ Assumes people are less engaged with others and their community these days and need to fix that
▪ Assumes people are busy with various things these days and need a proper planner
▪ Assumes people are less engaged with their community's political decisions and need to participate in that as much as possible

Competitive Landscape / Context

▪ *Include at least two.*
▪ Craigslist
▪ Social media – Meta, Twitter
▪ Calendar app
▪ News websites

Return, Opportunity, or Impact One

		Time
		On-Going
▪ Ad money	$ 50,000.00	$1000.00 /month
▪ Money brought from opportunities through app popularity	$ 10,000.00	$500.00 /month

Intangible Benefits

	Impact or Value
▪ *Helping people and making the world a better place by fixing some issues in the social, economic, and political arenas at a low rate*	$100.00 /month
▪ People who get something out of the app can be grateful, which is also part of the goal when making the app. Those people may donate money.	$100.00 /month
▪ The popularity of app usage opens doors to many success opportunities. $500.00 /month	
▪ The impact of the app might result in honorary mentions. $ 100.00 /month	

4. Project Requirements

The Project team will gather detailed requirements once the project is approved. Use this section to articulate any critical solution components to help scope the project's size and complexity. Do not describe how the solution will be implemented; instead, only list the functionality and results you expect to receive when the project is complete/delivered.

4.1. Must Haves

4.1.1.	Users have their own accounts and personal profiles
4.1.2.	Main sections: events, jobs, sports, life hacks, interest groups, news, local politics, volunteer opportunities, planner, schedules
4.1.3.	Interconnections between sections – such as (news and lifer hacks), (events, jobs, volunteers, local politics), etc.
4.1.4.	Background check of users and credibility of posts – such as job posts, event posts, meet-up posts, etc.

4.2. Nice to Haves

4.2.1.	App connection with other apps that users use
4.2.2.	Post credibility checker such as whether a life hack post is true or made up, or whether a job help post is true or just a prank – a way to fix those mishaps before they happen

4.3. Don't Do's (Out of Scope)

4.3.1.	*Allow anyone without a background check to use it*
4.3.2.	Let people post unrelated stuff or keep posting after a few flags

5. Project Costs (Operating and Capital, Onetime and Recurring

*This section is typically fleshed out after the requestor has submitted a PIR and received approval as part of the initial scoping. It captures the effort estimates, capital expenditures, and other costs associated with performing this work and creating the product/solution. If the submitter has thoughts or estimates on what these costs are or suggestions on how they might be estimated, please include those here. Add brief descriptions as needed. **Include at least 2 comments on your thinking around these items, even if you don't have specifics yet.***

Labor Costs

Type	Team(s) Affected	Low (hrs)	High (hrs)
Analysis & Design		20	40
Development		20	40
Testing and Quality Assurance		7	10
Systems Integration		4	8
Deployment		10	15
Support and Maintenance		10	11
Sales and Marketing		8	14
Total		**79**	**138**

Comments:

- The design could take a few hours to design on paper, try it out on an app development platform, and edit as needed.

- There will be various things to consider. The design would have to fulfill the need for simplicity, smooth overall flow, tech-savviness, majority preference with margin inclusion, etc.

- Considering all those steps and things to consider, the design might take some time, about 10 – 20 hours minimum and 40 max

Maintenance Costs

Type	Hours / Month Low	Hours / Month High
System / User Support	200.00	500.00
Business / Process Support	500.00	1000.00
Total Support & Maintenance	**700.00**	**1500.00**

Comments:

- It would be tough to say, at this point, what the maintenance cost would be. But taking into consideration and comparing other startup apps that employ similar functionalities, the maintenance cost could be in the range of $200 to $500 per month as a somewhat successful startup app

- I think the business side would include a few negotiations with business owners and some form of work with advertising and figuring out the outreach methods such as topic relations for ads, demand and supply scheme, and priority hierarchy. All those factors combined and implemented for a startup app could cost a maintenance cost of $500.00 to $1000.00 per month.

Capital Costs

Description	Quantity	Cost ($)
App development and use distribution		$ 10,000.00
Starting office, app promotion, maintenance cost		$ 10,000.00
Total		**$ 20,000.00**

Comments:

I think designing and making the app would not be costly, but adding databases and maintaining the app's use and distribution with properly employing the app's functionalities can cost somewhere between $1000.00 – $10,000.00

I think Having a solid office, maintaining the app, and promoting it might cost around $5000.00 to $15000.00

3.0 Feasibility Assessment

3.1 Introduction

This section is a feasibility analysis section. This section describes the feasibility of the software's development and implementation by testing the different categories of feasibility assessments. Each assessment's feasibility measurement results are described below. A rating is used to indicate each category's feasibility assessment score. The rating scale used is a scale from 1 to 5 and is described below:

1: Very low – for very low risks
3: low – for fairly low risks
4: medium – for not so low but somewhat high risks
5: high - for high risks
6: very high – for very high risks

3.2 Feasibility Analysis

3.2.1 Technical: Overall Risk analysis: medium

User Familiarity: These days, people are very familiar with technology and how to use them. The application will be very easy to use, and users can pick up easily on how to use the functionalities of the software. Support will be available for those who require help using the app. The support will be available through FAQs, a help menu, and contacting customer service. When users first create an account, a tutorial will be given to help users learn all the necessary basics of navigating and using the app's features.

Analyst Familiarity: Having worked on similar projects in the past, I am familiar with web and mobile application developments. So, familiarity with developing the software should be an issue.

Project size: The project is fairly large: It has 7 well-defined sections. Depending on feasibility and overcoming the constraints, some sections could be removed. So, this section is risky.

Project structure: The project structure is well defined. It will be designed with consideration of the users' needs and choices and with good navigation flow. The app sections also interconnect with each other where there is a relation between sections. These are very feasible.

3.2.2 Resource   Overall Risk analysis: low

People's availability: The people needed are available. It is only a matter of the user's deciding if they want to use the features the product offers and trust it enough to handle their private information. Those decisions will also depend on the user's choice of whether to use this software or other competing software. The required expertise will be available when needed. But until the application gets strong support, users would have to depend on the help section and use the FAQ page or watch tutorials on how to use the application.

Hardware and Software: All the necessary equipment are available except for security measures and legal agreements for using sensitive government data. I am not skilled in implementing a secure website with strong background checks. But I soon hope to be. The software will be built with current models and therefore be able to integrate easily with existing organizational systems.

3.2.3. Schedule   Overall Risk analysis: medium

The deadline for this project is the spring season. The project is sort of large, and there are a lot of legal and contractual agreements to do if all the applications intended functionalities are to be designed, developed, and implemented. So, meeting the schedule requirement is not very feasible.

There are no strong requirements for finishing the whole project on time.

All resources are available for making the application. The requirements are well defined. All that is needed is legal agreements and strong security software implementation.

3.2.4 Organizational   Overall Risk analysis: low

It will take time to convince people to start using the new software. But once they see the benefit of the software, they can decide if it is worth using. However, because of competing software and the unpopularity of apps such as this, it may take time to get the app to where it needs to be.

The profits expected, both the tangential and non-tangential benefits, are motivational to continue to work on the software. Having customers who actually use it and seeing some positive changes would be very encouraging.

The organizational goals are well defined. People know the use of the software and what it stands for. So they can decipher or find out about the software's goals very quickly. Users won't have an issue identifying the software's purpose and supporting it or dismissing it.

3.2.5 Legal and Contractual   Overall Risk analysis: high

The risk with regard to ownership rights is somewhat risky because we have not worked out the legal requirements for the application yet. The application needs a strong security system which is dangerous if users lose that trust.

I have not yet negotiated any contracts with legal bodies. Considering the complications involved with implementing the local politics section as well as the consequences of mistakes in this area, there is a high risk if this is not implemented right.

Depending on the popularity of the sections involving legal contracts, the section could be improved or removed. If people seem to like the section regarding political decision-making involvements, additional sections to be added might be considered and negotiated. However, if the section seems to be of high risk and not popular, it could be removed.

Currently, research is being done on how to implement the section and acquire proper legal contracts. This section also works well with the system's overall security, whose effectiveness will be tested and may affect the decision to keep the politics and government-related section or remove it.

3.3 Additional Comments

When it comes to the feasibility of the product, there are some concerns regarding implementing the security and background checking capabilities and getting all the legal requirements needed. That will require some research and work. Besides that, the only other problem is schedule feasibility. Since the software is large, it will take time to develop the application. But once the legal and technical contracts are figured out, a proper schedule can be identified.

Possible Solutions for feasibility risk:

Out of all the feasibilities, the legal and contractual feasibility seems to be the one that is the highest. That is because I am not sure how the legal terms will be negotiated since some of the contents of the DMP software will be sensitive information or close to sensitive information. One possible solution is to use links inside news and local politics pages instead of having explicit content. Another possible solution is to have only non-sensitive information in those sections. But for sensitive information, a link could be provided that leads to the original source of information where users can check that out if they want to learn more about it, instead of allowing that kind of sensitive data on the DMP software.

3.4 Conclusion

The app is somewhat feasible. While the minimum viable product (which excludes the government and politics-related sections) is high feasible, the overall software is not very feasible. The project's size is time-consuming and may not meet the schedule requirement. The organization is well defined, and there are no risks in this area. The required resources are almost available. Some resources needed in order to implement the software and some of its functionalities need to be researched and learned about before developing the application. The legal requirements are on a high-risk feasibility level. The application touches on sensitive government data, which is very risky. Getting the legal contracts and permissions to use those data would be very hard and not very feasible. However, that is something we are going to work on and find out. The technical feasibility is very good. Besides the aforementioned need for training in some areas, everything else, particularly the minimum viable product, is technically feasible.

As mentioned under possible solutions for feasibility risk management, one of the best ways to mitigate the feasibility risk is to not include sensitive information on the DMP software. The news and local politics sections may sometimes include sensitive information. Therefore, the section could have non-sensitive information in those sections, and for sensitive ones, a link could be provided that leads to the original source. So, users can follow that link and get information from there if they want to.

4.0 Requirements Definition

The DMP software is s software that mainly helps people find local events, jobs, interest groups, meetups, and news. The DMP provides simple and important functions people can take advantage of, such as life hack lessons, how to participate in local politics, and a planner. It gives users the ability to have an account, find what they want, message the post administrators if that functionality is available for that coordinator, save some posts into their favorites sections, and choose to be notified of some sections. Once users sign up and pass the background check, they will be able to view and search the various sections. If they like a post, they can follow the links provided to complete the tasks or message the posters. They can check their notifications page to view notifications. They can communicate with other users, posters, and coordinators using the message section. They can add tasks and plans to their planner, which will work with their notifications as per the user's choice.

4.1 Introduction

The following section will describe the functional and non-functional requirements of the software. The functional requirement is what the software does and what its capabilities are. The non-functional requirement covers the what the software is and

The software would have a lot of capabilities and be able to implement many functionalities that will be user-friendly and tech-savvy.

4.2 Functional Requirements

The DMP will have a software system and design that is user-friendly and that can be used seemingly easily with a good overall flow. The software provides users with the ability to check events, jobs, news, planners, meetups, local politics news, local politics participation opportunity, life hack information, and interest groups by clicking on the section buttons from the home page. The planner will be the default display on the home page. Users will be able to not only sign up for events or jobs but also communicate with the posters if the posters have allowed that functionality. Users will be sent the reason why they weren't granted the request by the administrator, who is obliged to respond to denied users the reasons why within the deadline. Users and administrators will have different display outlooks, with administrators having somewhat short sections because they don't need to view posts.

4.2.1 Account setup:

- Users will create their account by entering all the required information such as account type, personal info, contact info, and interests (chosen from a range of interests to help with matching users to the different posts and their requirements).
- Users must enter their interests when signing up to help match users to the different posts as well as their requirements
- The software will guide the user on how to use the application once the user has a valid account
- A message and a notification will also be sent to the user from the application administrators on how to use the app and other welcome messages
- The software will provide a choice between a written description tutorial or a step-by-step guide tutorial for a user to use to learn about how to use the application
- Once an account is up and running, users can configure their settings, edit their profiles, edit their preferences, display settings, etc.

4.2.2 Security and Background check:

- When new users sign up for an account, the system will let the users know it will conduct a background check, and if they don't pass that, they won't be able to create an account
- The system will also let users know that if they are reported for inappropriate behavior or suspicious activity and found to be guilty of it, their account will be removed
- Once a user enters their personal information and submits a request to have an account, the background check validation process will take 3 days to check the user's personal info and respond with an approval or rejection message to create an account
- Every time a user updates personal info, a background checker will reevaluate the users account to validate the information entered
- The system will alert the user that their information will be reevaluated every time they update their personal information or profile
- Users can report inappropriate posts and users they suspect. The system will record the reports, and after investigation, if users are found to be irresponsible or a fraud, they will be removed

4.2.3 Common features:

- The home page will start with a display of the planner section, with the buttons for links to the other sections will be listed on one side of the home page
- Events, jobs, public meet-ups, and interest groups page will have a covid warning quote posted on top of the pages. The covid warning will indicate users to carry out covid

precaution measures as they interact with people or carry out their day-to-day activities. The warning will be catered to their respective state and community's covid rules.
- The home page will have buttons such as:
  - Post: for posting an event
  - Help: for accessing helping guides or tutorials about the software
  - Saved: for a collection of saved posts, events, jobs, ….
  - Message: a message section with all the messages that happened between the user and other accounts
  - Notifications: notifications section with all the notifications the user chose to be notified about and any other important notifications the user should be aware of
  - Manage posts: if the user ever posted anything – those posts would be here, and the user can go to them and manage them
  - Events: to check events posts
  - Jobs: Check job posts
  - Life hacks: Check life hacks posts posted by anyone
  - Local politics: Local politics related posts
  - Public meet ups: Posts about any public sports meetups happening in the area
  - Interest groups: new or old interest group posts
  - Planner: Private planner for each user
  - Contact support: To contact customer support
  - FAQ: check already asked and answered questions
  - Account: To check their profile account
  - Settings: To work with settings
  - DMP policy: To check DMP's policies

4.2.4 Process and Service:

- Users can click on one of the buttons listed above to check the contents of that link or page
- Administrators will have the choice to view the pages as an administrator or as a user, but when viewing them as a user, they can't sign up for events or request to join a group. They can only view the information posted.
- When viewing as posters, administrators will have the following sections:
  - Post:
  - Review applications/requests/registered users:
  - Messages:
  - Notifications:
  - Planner:
  - Manage posts:
  - Account:
  - Settings:
  - DMP policy:
  - Contact support:
  - FAQ:
  - Help:

- Users will click on the post button to post about any of the sections available
- Users will click on the manage posts button to view, check, and manage the posts they have posted and other user's responses to them
- Users will click on the help button to view and access helping guides about the software, tutorials on how to use the software, and other information about the software
- In the collection of posts section of each section or on the specific post page, there will be the following buttons under the post header that users can click on and utilize:

  - Comment:
  - Reply:
  - Like:
  - Dislike:
  - Save post:
  - Message: This button's availability will depend on the administrator's choice.

- While all the sections have almost similar display properties and features, the planner and the local politics section will have somewhat different display properties and features

- The planner will have a year section on top, followed by a month section right below that, and then days of the week buttons that take the whole width of the planner section on the top third row.
- Users will add tasks by clicking on the 'add a task' button or clicking on a timeframe box in the space of a specific day
- Users can drag their task post on their planner and change its time or date to another day and time
- The local politics will not only have posts such as local politics news, public meetings, local political decisions, etc., but also a "how to participate" button that has information about how to participate in local politics, what the decision-making process looks like, public meeting rules and requirements, and the rules and regulations of participating in local politics
- Life hacks post will have a copy-paste button right next to the post text, so users can copy-paste the post text
- Users will click on a section from events, jobs, life hacks, interest groups, meetups, and local politics
- Users will click on expand button found under each post or the specific post itself to find more about the post
- Users will click the events button to view event posts and expand button found under each post to view more information about a post
- Users will click on the comment, like, dislike, save post, message, or reply button found under each post in the posts section or on the specific posts page
- The message button will be optional and up to the administrator's choice
- Users will click on a specific event to view more information about the event and to go to the specific event's page
- Users will click on sign up for event or follow a link provided in the page to sign up using another website
- user will click on rsvp to register for the meetings

- once signed up, users can click on 'add to planner' to add an event or any other topic to their planner
- Users will click on life hacks to view more life hack posts
- Users will click on sort by to sort the posts using available and incorporated attributes
- Users will click on a specific post to view more information about the post, such as detailed descriptions, the date and time it was posted, the administrator's info, etc.
- Users will click on local politics and news sections to view local politics related posts and news posts. Both sections can be sorted
- News sections will have a view local, city, state, and national news options
- Local politics will have a learn local politics rules and regulations button
- Local politics will have a learn public meeting rules and regulations button
- Users will click on the contact support button to contact support and report issues or figure out how to fix an issue
- Users will click on the FAQ button to see if their questions have been asked and answered before
- Users will click on the account button to go to their accounts page or check their profile
- User will click on the settings button to configure settings for the software
- Users will click on the DMP policy button to read or learn about DMP's policies
- Users will click on the saved posts button to view saved posts and work with them
- Users will click on the message button to view messages and work with their messages
- Users will click on the notifications button to view notifications
- Users will click on the manage posts button to manage posts they have posted
- The system will check and remove users reported as being inappropriate after confirming reports
- Posters who post in the following sections (events, jobs, interest groups, and public meetups) will be notified to include their respective covid 19 requirements in their post
- Users who sign up for the following posts (events, jobs, interest groups, and public meetups) will be notified to follow current covid 19 precaution rules as required by their respective states and communities

4.3 Data Requirements

4.3.1 User and personal data

- The system will record a user's personal information
- The system will record a user's preferences and other settings
- The system will record a user's communication with others
- The system will record a user's posts, saved posts, favorited contents, liked posts, commented posts, and replies to posts
- The system will record a user's applications and what they signed up for
- The system will record a user's interests and activities
- If a user wants to delete their account, the system will compile and give users their data before removing their account upon request

- The system will record posters activity data

4.3.2 Sections and interrelations

- The system will record local politics and news posts and save them for up to two weeks, from which point on detailed information will not be saved, and users will have to contact the source of the news to get the detailed information about the news
- The system will record events, jobs, and interest group posts for up to a year, from which point on, users will have to contact the source to get more information
- When someone posts a post, the data will be saved for three months past the last date of the post's duration, after which it will be deleted
- When users sign up for an event or any post, the system will record their data and save it. This will also help with suggestions to the user; if they want to add an event they signed up for to their planner
- When users follow a link to sign up for an event or any post, the system will track and record their data, having negotiated with the third party to get the user's information
- The system will record user's comments, replies, posts, and likes and save them under the user's activity logs

4.3.3 Violators and warnings

- The system will record and track schedule changes and updates to see if they are appropriate. If not, posters will be warned for posting misleading posts
- The system will record flagged users, in order to take appropriate action if users proceed to violate rules

4.3.4 General

- The system will calculate and record the number of users in a community and use that data when making updates to the software
- The system will calculate and record the type of activities in each community to display under reports most favorite activities in each community
- The system will calculate and record the number of local political participants in each community to display under reports each community's political involvement data

4.4 Non-functional requirements

4.4.1 Project–oriented: Development Requirements:

- The project will take about 6 months to develop. Depending on the status of meeting all the requirements, including the legal and contractual requirements, the development time could take longer. But the minim viable product should be completed within 6 months' time.

- Other factors that affect the development schedule are technical feasibilities and the developer's capabilities to implement the required security and background checking capability

- The project will be done with minimum cost as much as possible because, as a student, I can't afford huge costs

- Required resources are available for the project, but as mentioned before, methods of implementing strong security and background check are still under review.

- System support will require employees and customer service workers. At the start of the software's release, this is not feasible. Users will simply have to go to the system documentation and help menu. But if the software becomes popular and successful, system support with fully functional customer support will be implemented.

- The software will be built with up-to-date tools. Therefore, maintainability and testability should not be a problem.

4.4.2 Project-oriented: Operational Requirements

- The system will use as much cheap and available resources to start off. Therefore, response time and memory usage may not be particularly impressive at first. However, if the software becomes popular and successful, then the system can be updated to operate fast and with excess memory capacity.

- For first-time users, the system should load and display the sign-up page within half a second.

- The background check will take about 3 days, so users have to wait 3 days from the moment they sign up for an account before they can find out if they have passed the background check or not

- The system will send messages between 3 to 5 seconds depending on attachments and message length.

- The system will take about 1 second to submit forms such as applications and requests, once they are filled out

- Since the system will utilize strong security measures, it will be reliable to use any of its features

4.4.3. Project non-functional requirements

- The software will be implemented as a website and a phone application

- The system will employ a connection between administrators, users, and the system's administrators. Users can communicate with administers, particularly if administrators choose to use the message feature in their posts

- The system's administrators can inspect users' and poster's actions. If necessary, they can communicate with administrators and users.

- Such communication portals would take some time to develop but should not be too hard

4.4.4 Other non-functional requirements:

- Users can choose to create an account as an administrator or regular user

- Administrators can be company administrators, independent administrators, or self-employed administrators

- If the user passes the background check validation process, then the user can start using their account

- Once an account is up and running, users can configure their settings, edit their profiles, edit their preferences, display settings, etc.

- An administrator's account display and a regular user's account display will look a little different

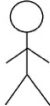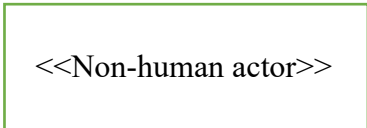- Users can also post but only as an independent or self-employed administrator

- They can only use that title when posting

- After posting, both users and administrators can manage their posts

- Every section, except for the panner section, will have a sort by option where users can sort the posts by date, relevance, type, popularity, etc.

- Users can also post but only as an independent or self-employed administrator

- They can only use that title when posting

- After posting, both users and administrators can manage their posts

- A user can post posts as an individual using the available features for an individual poster

- Once users apply or sign up for a post, the administrator must either agree or deny the user their request or application. However, if denying users, then the administrator must let the user know through message why they denied the user their request or application specifically

- A job post and communication process with users interested in the post will last from the date the post was posted to the date the post is due and 15 more days after that, within which the administrator must respond to users who were denied their request why they were denied

- Users can reply to the administrator's message, but any hostile tone or inappropriate verbal argument with the administrator or the user will not be allowed, and if reported or found out by any means, the instigator will be removed
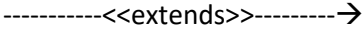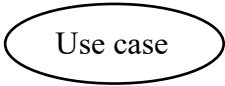
5.0 Requirements Model

5.1 Introduction

The requirements section will have a use case diagram and descriptions that show how the different components and players of the software work and interact together. Each main event will have its own use case description that will further explain what it is and what it involves.
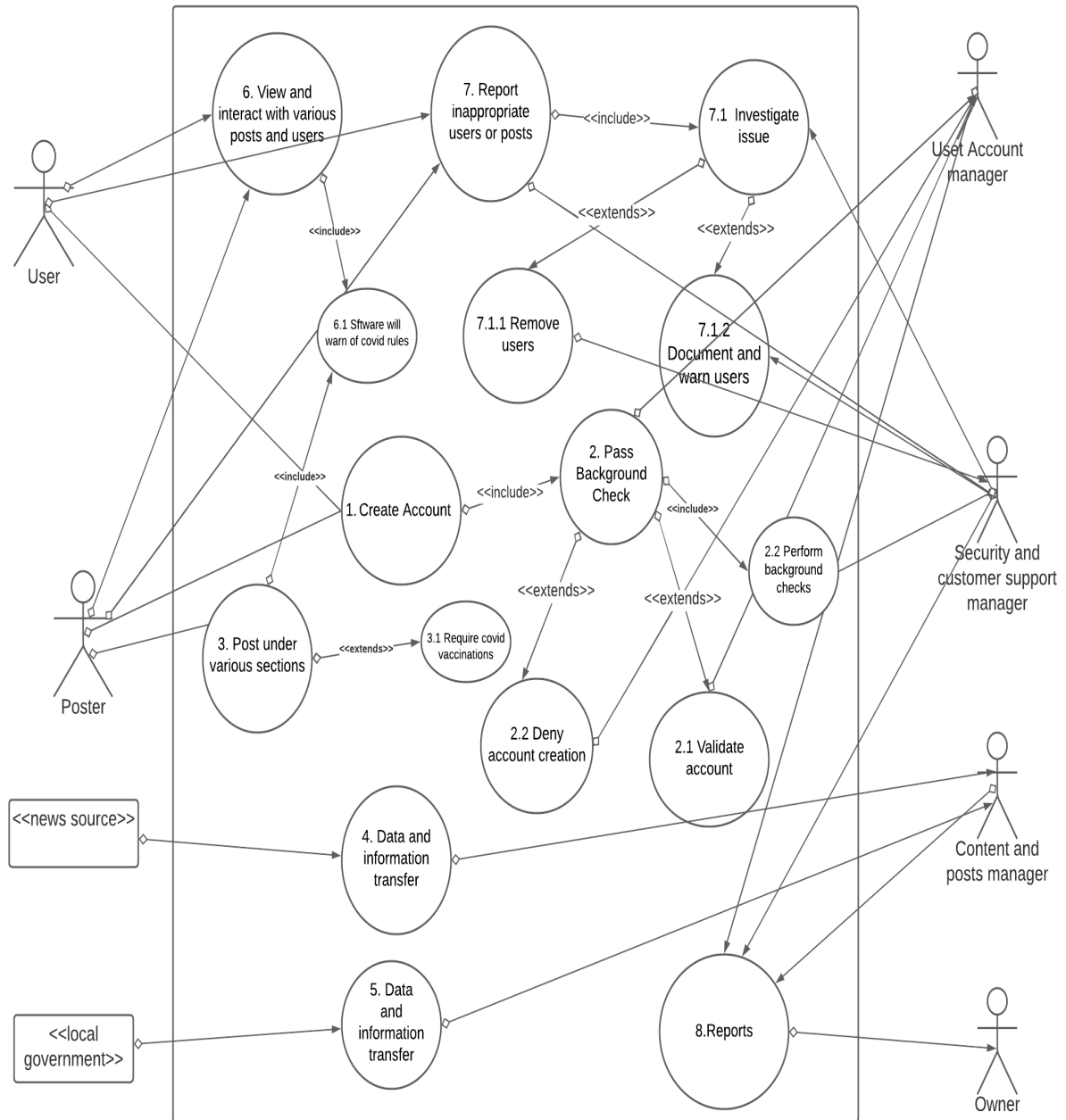
Below are the symbols used in the use case diagram and their meaning.

Actor <<Non-human actor>>	An actor is anyone that needs to interact with the system to exchange information A human actor is an individual representation, and a non-human actor is anyone that doesn't represent a single individual
_____	A line represents a connection, relation, or association between a use case and an actor

---------<<includes>>------→	Represents the inclusion of another use case in a use case. The line is drawn from the base case to the included use case.
-----------<<extends>>---------→	Represents an extension of a use case to include optional use cases. The lien is drawn from the base case to the extended use case.
Use case	Represents a use case with a name and an id number

5.2 Use-Case Diagram

Ammanuel Beyene's DMP software use case diagarm
CSC 3150 - System Proposal Part 2 AssignmentProfessor Andy Cameron
May 19, 2022

Created using Lucid Chart

Link: https://lucid.app/lucidchart/6dfbcd8e-62f1-4986-95df-90f58b25e0ad/edit?invitationId=inv_f2f38ae9-9554-48ed-aaee-031c10cb9c51&page=0_0#

5.3 Use-case descriptions

Use Case Name: Creating an account		ID: 1	Importance: Very important
Primary Actor: Users		Use Case Type: Detail Essential	

Supporting Actors:
- **User account manager**
- **Security and customer support manager**
- **News sources**
- **Local government**
- **Content and post manager**
- **Owner**

Stakeholders and Interests:

       Owner – wants more users to sign up

       Business partners – want the software to be successful and more users to sign up

       Sponsors – want the software to be successful

Brief Description:

A regular user or poster hears about the software from various sources and wants to create an account. So, they come to the website and enter their information. They submit a request to create an account.

Trigger: User wants to create an account and enter their information

Type (mark one):   _x__ External   ___ Temporal

Relationships:

       Association: Users, user account manager, security, and customer support manager

       Include: Background check

       Extend: None

       Generalization: None

The Normal Flow of Events:
1. New regular user or poster visits the software
2. The user chooses to create an account
3. User enters information
4. User submits request
5. If User passes the test, they can have an account
6. User can update their data

Sub-flows:

(Step 2-3)
1. The user chooses to create a regular account or a poster's account

(Step 6)
1. If user updates their data, their request will be intrinsically checked, when the system does timely checks to check user's updates and data

Alternate/Exceptional Flows: 2a. If a user is not above 18, the user cannot create an account

Special Requirements:
Performance
    1. The website should be rendered within less than 1 second when opened
User Interface
    1. Users will have options to small introduction video and slides to see what the website looks like without being able to change anything
Security
    1. If a user is not 18 years old, they cannot create an account

To do/Issues: Users will be able to post but under limited functionality. But still working on deciding whether or not a separate account is really needed?

Use Case Name: Pass a Background check	ID: 2	Importance: Very important
Primary Actor: User		**Use Case Type**: Detail Essential

Supporting Actors:
- **User account manager**
- **Security and customer support manager**
- **Owner**

Stakeholders and Interests:

- Other users – who want a safe environment to do their tasks
- Owner – wants credible and secure software users can use and more users to sign up as a result
- Business partners – want the software to be successful and have credibility, as well as - more users to sign up
- Sponsors – want the software to be credible and successful

Brief Description:

After users enter and submit their information to create an account, they have to wait three days for the background check process. A background check is done on users, and if users pass the check, they can have an account. Otherwise, they are denied account creation.

Trigger: Users submit account creation information

Type (mark one):   _x_ External   ___ Temporal

Relationships:
      Association: Users, user account manager, security and customer support manager
      Include: Perform background checks
      Extend: Validate account, Deny account creation
      Generalization: None

The Normal Flow of Events:
      1. User submits account creation information
      2. User waits three days
      3. Background check is done on the user in those three days

Sub-flows:

(Step 3)
      1. The Security and Customer Support Manager does the background check
      2. Background check checks for user's age, background information, and user's history
      3. After two days, Security and Customer Support Manager will give the background check results to user accoutn manager

Alternate/Exceptional Flows:
3.a. If a user is not above 18, user cannot create an account

If user doesn't pass background check, user cannot create an account
If user passes a background check, user can create an account

Special Requirements:
Performance
    1. The website takes information and lets users know they have to wait three days for the background check
    2. after three days, user gets an email about the approval or denial
Security
    1. If user doesn't pass a background check, user is denied account creation.
    2. User can request detailed information, which they can be emailed

To do/Issues: None so far

Use Case Name: Posting		ID: 3	Importance: important
Primary Actor: Posters	Use Case Type: Detail Essential		

Supporting Actors:
- **Owner**
- **Security and customer support manager**
- **News sources**
- **Local government**
- **outside source manager**

Stakeholders and Interests:

     Owner – wants the software to have various posts users can work with
     Business partners – want the software to be successful and users to be able to
     perform tasks
     Sponsors – want the software to be successful

Brief Description:

Posters post their content under various sections. Content could be about jobs, events, interest groups, life hacks, etc. News and local politics meetings will also be posted in their sections.

Trigger: Posters with an account post their content to display for users

Type (mark one): _x__ External   ___ Temporal

Relationships:
    Association: Users, security and customer support manager, content and posts
manager
    Include: Covid warning
    Extend: Covid vaccinations
    Generalization: None

The Normal Flow of Events:

    1. Posters fill out the content of their post
    2. Posters post their content
    3. Content is displayed in the corresponding section

Sub-flows:
(Before step 1)
    1a. The software will warn posters to include covid precautions in their posts
    1b. Posters may require covid vaccinations for posts that require interactions, but the
software will encourage it by suggesting it

(Step 2-3)
        3a. Posters can delete their post but have to provide an explanation

Alternate/Exceptional Flows:
 3a. If a post is flagged as in appropriate, irrelevant, or misleading, it will be investigated by security and customer support manager
3b. if the post is found to be inappropriate or irrelevant, poster is notified to remove the post

Special Requirements:
  Performance
    2. The contents of each section should be displayed with in less than one seconds

  User Interface

    1. Each section would have corresponding posts and users can sort through them quickly if they want
    2. Posts can be sorted by date, relevance, or search word

  Security
    1. Posts can be flagged as inappropriate, irrelevant, or misleading

To do/Issues: Both regular users and posters can post but regular users will be limited on being able to use all the features for posting. This is to differentiate between a job poster from a company and a regular user who wants to post temp jobs. But should all users sign up as regular users?

Use Case Name: News data and Information Transfer	ID: 4	Importance: Vey important
Primary Actor: News source		**Use Case Type**: Detail Essential

Supporting Actors:
- **Content and posts manager**
- **News source**
- **Owner**

Stakeholders and Interests:

    News source – will allow information transfer to the software and hopes users will be directed back to source for more information on the news

        Owner – wants news section to run properly, will check report

        Business partners – want the software to be successful and users to make use of the news sections

        Sponsors – want the software to be successful

Brief Description:

A contract is worked out with a local or or any affiliated news source and data is transferred from the source to the software's news section. Users can check news and if interested, can follow link for more information on news.

Trigger: Website requests data from news source

Type (mark one): _x_ External _____ Temporal

Relationships:
        Association: Content and posts manager, news source
        Include: None
        Extend: None
        Generalization: None

The Normal Flow of Events:
        1. Website requests data from news source
        2. News source sends data
        3. News is rendered on news section

Sub-flows:

(step 1-2)
        1. The source could be local or national

Alternate/Exceptional Flows:
3a. If users want more information on a particular news, they can follow a link that will take them to the source of the news, and where they can get more information

Special Requirements:
Performance
    1. News section will show about 10 news posts per page and each page will be rendered within less than one second
User Interface
    1. Users can navigate through the news contents and check news posts posted on website for the past three months
Security
    1. Users will not be able to change news content or distribute news content to their own sites

To do/Issues: How much data can be transferred from other news sources and what will be the limits?

Use Case Name: Local politics data transfer		ID: 5	Importance: Vey important
Primary Actor: Local government agency		Use Case Type: Detail Essential	

Supporting Actors:
- **Content and post manager**
- **Owner**
- **Local government**

Stakeholders and Interests:
- Local government agency – who want more citizens to participate in politics and local democratic decision makings or votes
- Owner – wants users to participate in their local political decision making and be able to change their community for the better
- Business partners – want the software to be successful and want good reviews of the software

Brief Description:

Content and posts manager requests local government agencies to send public meeting schedules and local politics news. Local government agency sends data. Data is then rendered on local politics section for the software.

Trigger: Software requests local politics news and information from local government agency

Type (mark one):   _x_ External   ___ Temporal

Relationships:
      Association: Local government agency, content and post manager
      Include: None
      Extend: None
      Generalization: None

The Normal Flow of Events:

1. Content and post manager requests local politics data and information from local government agencies
2. Local government agency sends data.
3. Data will be shown on local politics section of the software.

Sub-flows: None

Alternate/Exceptional Flows:
3a. If user wants more information on a specific post on local politics, they can follow link to learn more about it

Special Requirements:

Performance

    1. Local politics page will show 10 politics posts per page that will be rendered within less than one second

User Interface

    1. Users can navigate from page to page to see local politics posts for the past three months

    2. Links will be provided for users who want to check more local politics information

Security

    1. Users will not be allowed to change any of the politics posts

To do/Issues: Still trying to learn about the legal requirements for working with local government data

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Use Case Name: View and interact with posts and users	ID: 6	Importance: Vey important
Primary Actor: Users	Use Case Type: Detail Essential	

Supporting Actors:
- **User account manager**
- **Owner**
- **Security and customer support manager**
- **News sources**
- **Local government**
- **Content and posts manager**

Stakeholders and Interests:

     Owner – wants users to use the app and its functionalities and to gain more users as active members increase

     Business partners – want the software to be successful and for users to interact with the posts, which may include the business partners posts

     Sponsors – want the software to be successful and for users to be active members of the software

Brief Description:

After creating an account and being approved, users can use the website and all its features. Posters will be able to post, and users will be able to view various posts, interact with the posters or other users.

Trigger: Users and posters view posts and interact with each other

Type (mark one): _x_ External _____ Temporal

Relationships:

     Association: Users, user account manager, security and customer support manager, content and posts manager

     Include: Warn of covid rules

     Extend: None

     Generalization: None

The Normal Flow of Events:

1. Users are approved for account creation
2. Users check the various posts
3. Posters post under various sections
4. Users and posters interact with each other
5. A warning to follow covid precaution measures will be displayed on the home page that will be updated according to the state's laws

Sub-flows:

(Step 4)

     4a. Users can sign up for posts such as job posts, events posts

4b. Users can communicate with posters who allow users to message them, to ask various kinds of questions
4c. Users can send other users' messages

Alternate/Exceptional Flows:
4a. Users can only communicate with posters who allow that functionality.

Special Requirements:
Performance
    1. The software allows users to send and receive messages within 1 to 5 seconds after being sent
User Interface
    1. Users will have a messages section, where they can work with their messages
Security
    1. Users will be able to block a user to not receive messages from them

To do/Issues: None so far

Use Case Name: Report inappropriate users or posts	ID: 7	Importance: Vey important
Primary Actor: Users		**Use Case Type**: Detail Essential

Supporting Actors:
- **Posters**
- **Security and customer support manager**
- **Content and post manager**

Stakeholders and Interests:

     Owner – wants to provide safe environment for users and maintain software credibility
     Business partners – want the software to be safe, credible, successful and attract
     more users
     Sponsors – want the software to be safe, credible, and successful

Brief Description:

Users notice a post is inappropriate, misleading, or a user is acting suspiciously or a threatful manner. They can mark the post as flagged or report the post or the user. Security and customer support manager will investigate all flagged posts, users and reports. Then the poster or user is warned based on the severity of the issue. Upon second violation of software policy, the poster or user is removed.

Trigger: User wants to create an account and enter their information

Type (mark one):   _x_ External   ___ Temporal

Relationships:
    Association: Users, poster, user account manager, security and customer support manager, content and posts manager
    Include: Investigate issue
    Extend: None
    Generalization: None

The Normal Flow of Events:
1. User or poster notices an inappropriate action
2. User or poster flags the post or reports the matter
3. Security and customer support manager investigates the issue
4. The issue will be taken care of differently depending on the severity of the issue
5. If the user or poster is found to be a fraud or hack, they are removed and blocked

Sub-flows:

(Step 4)
    5a. After removing and blocking the fraud poster or user, any effect they have caused
    to the software will be checked and corrected

Alternate/Exceptional Flows:
4a. If the issue is not that serious, the user or poster is notified and requested to remove a post or not be careful when performing similar actions
4b. If the issue is somewhat serious, the user or poster is warned and documented
4c. if the issue is very serious, the user or poster is removed and banned from the software

Special Requirements:
Performance
    1. If the issue is very serious, the user or poster will be removed immediately and any effect they caused o the software will be checked a corrected
User Interface
    1. Every post will have the flag icon users can click on if they want to mark it as inappropriate
    2. Users will have the option to submit a report to customer support by using contact us page
Security
    1. After serious violators are removed and banned, the system will be checked to make sure no effects were inflicted by the removed users.

To do/Issues: Still working on trying to figure out a strong security system to block hackers and frauds.

Use Case Name: Report		ID: 8	Importance: Vey important
Primary Actor: Owner		Use Case Type: Detail Essential	

Supporting Actors:
- **User Account manager**
- **Security and customer support manager**
- **Content and post manager**

Stakeholders and Interests:

Owner – wants to check the software's performances and make decisions accordingly

Business partners – want the software to be performing well and as expected, as well as be notified of any important happenings or changes to come

Sponsors – want the software to be performing well

Brief Description:

Every day, the user account manager, security and customer support, as well as the content and posts manager will organize the daily data and write a report for the owner. They will submit the daily report to the owner.

Trigger: End of day, daily report must be submitted

Type (mark one):   _x__ External   ___ Temporal

Relationships:
        Association: User account manager, security and customer support manager, content and posts manager
        Include: None
        Extend: None
        Generalization: None

The Normal Flow of Events:
1. At the end of each day, the user account manager, security and customer support manager, and content and posts manager will submit daily report to the owner
2. The report would include various things such as daily user logins, new user signups, percentage concentrations of users on different sections, inappropriate and threat reports, removed users, etc.

Sub-flows: None

Alternate/Exceptional Flows:
2a. If a report is serious such as a hacker or fraud, then the security and customer support can remove them and send the information in the daily reports to the owner

2b. But if the report is not very serious and still requires the removal of a user or poster, then the security and customer support manager should contact the owner before removing the user or poster
Special Requirements: None
To do/Issues: What are all the main points that should be included in the reports?

6.0 System Evolution

This software has the potential to be modified and include a lot of other functionalities in the future. But first it needs to get a good number of users. The sections field is versatile, and a new topic section could be added as a section. Additionally, each section has the potential to include more features.

Features that could be added to the software, in the future include:

- In relation to messaging, add features to make it possible to call people using audio or video for various purposes and even meetings
- Step up the level to include not only local events and posts but also city level events as well as posts
- Could add social media section where users can have all their social media accounts under one section and can navigate easily through them. The events and planner section goes well with this because it can be updated based on events, meetings, and schedules from the social media as well
- When commenting on post, there will be a section that users have to fill out, which asks for the expertise level of the user in that area. So, when other users see a user's post or comment, they can click expertise level, which will show them how experienced the user is in that particular field. The system's security can validate user's expertise level, although it will be difficult to check and validate all types of expertise's.
- Covid 19 precaution measures displayed on the home page as well as covid requirements needed (suggested beforehand) when signing up for posts can be updated per the community's respective state's rules.
- If any similar informatic displays are needed or a new epidemic arises, the home page will display the warning message along with the guidelines required to be safe

7.0 Conclusions and Recommendations

7.1 Conclusion:

The DMP software will be helpful to many communities once it is implemented. DMP is a good software that will help people to get active, interact more, and make positive changes to their communities. Its versatile features will be important in carrying out various important tasks in an organized fashion. It will help people organize their tasks and responsibilities and carry them out in a seemingly easy manner. It also has the potential to include more features in the future. In terms of content, the DMP has a large scope, which affects some of its feasibility because of costs and the number of resources needed as well as the number of resources available. But even if the resources are not fully available, the vision is theoretically feasible and with time the constraints can be overcome. This system proposal shows that the DMP software has almost all of its functional, data, and non-functional requirements outlined including the system evolution. So overall, there is a good base that helps identify what the software is and how it should be implemented.

7.2 Recommendations:

For this software to be successful and utilized properly by the community, it needs cooperation from local news stations and government agencies.

- A good number of credible news stations must be willing to give information to the software, so that the news section would have sufficient and helpful news to the users
- Local government agencies must be willing to give local public political meeting schedule information or at least a link to how users can participate in their local community's decision making
- Local event hosts, interest group leaders, and public activity meeting coordinators, have to use the app, to gain more members for their activities and to populate the app with interested users
- It might be helpful to invest in an advertisement to encourage people to get active, to interact, as well as to pay attention to what is going on in their community and to be part of making positive changes in their community.

8.0 APPENDICES

In appropriate activity Report

Username / Poster Name

First *: [   ]

Last: [   ]

Post Content: [   ]

User's comments: [   ]

Date: [   ] MM/DD/YYYY   Send anonymously [ ]

[Cancel Report]   [Submit Report]

9.0 GLOSSARY

DMP – do more and proper
FAQ – frequently asked questions

10.0 BIBLIOGRAPHY

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