Initial idea and how select a project topic

**How to Select a Project Topic**

1. Choose two to three general areas related to your course of study that you would like to work in after you graduate. Your project is your main chance to differentiate yourself from the crowd.
2. For each one, spend one hour on news.google.co.vn trying to figure out what has been interesting in this area this year.
3. For each of the ideas that you have not rejected yet, read three to five journal papers, and document each of these using the Journal Logs. Start with ACM Computing Surveys or IEEE Communications Surveys and Tutorials. If you cannot find anything relevant to your idea in any of these two journals, you are doing something wrong
4. Compile a two-page report with the following content.

**A1, A2: at class**

**A2 (the final version), A3: at home**

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| **A1. Social Sway (Use the Django framework to build a social media network for learning programmers)**  ***Aim:*** *After completing this activity, you will have* ***an initial idea*** *for the project, can* ***create a research plan*** *to choose* ***technologies*** *and write* ***literature reviews on related works****.*   1. What have others done in this area over the last four years.   In recent years, medical and health care issues have been mentioned and given a lot of attention. Digital health monitoring and care is receiving attention and research. According to (Awad et al., 2021) , the author proposes the application of health care and monitoring methods using devices that allow seamless integration in the field of health care, Internet of Things technology is being exploited to form systems. Closed systems can communicate with each other remotely. with the outbreak of covid-19 and the desire to build a community of care and health monitoring and widespread community development. According to (Gupta et al., 2021) , he proposed building a connected ecosystem powered by data and IoT designed for smart monitoring, proactive prevention and control, and mitigation of COVID-19 and similar epidemics.   1. Divide it into 2 to 3 sections on subproblems that most people have worked on/showed interest in.  * Section 1: Research Report * Section 2: Design documentation * Section 3: Content Management and Interaction, User Authentication and Profile Management, Social Networking Features * Section 4: Evaluation and reflection report  1. What will the product look like? Who will it be useful for?   The final product is a Community Network to exchange and chat about research topics on health issues and how to take better care of your health. It will create a learning environment and exchange knowledge as well as health problems of patients or doctors. It will be very useful for programmers who are looking for an environment and community to learn together and to exchange knowledge and experience.   1. What will you use as your testbed, which programming framework, simulator, real device, standards, mathematical model, legal framework …?   I use HTML, CSS, and JavaScript to design the interface for the system. As for interactions and activities, I use python's Django framework with MVT model to do it. I use WebSocket to make some function which can work Realtime. My website ensures compliance with legal regulations on security policies, privacy rights and copyright regulations.   1. What is your evaluation path? What will be the metrics of your product’s success? Will you test it on real users, against a publicly available data set, against other similar products, …?   I rate my products based on the following evaluation criteria:   * Efficiency * attraction * features available on the website. * system scalability * comply with regulations and laws. * user experience  1. References in Harvard style.   Awad, A., Trenfield, S.J., Pollard, T.D., Ong, J.J., Elbadawi, M., McCoubrey, L.E., Goyanes, A., Gaisford, S., Basit, A.W., 2021. Connected healthcare: Improving patient care using digital health technologies. Advanced Drug Delivery Reviews 178, 113958.  Gupta, D., Bhatt, S., Gupta, M., Tosun, A.S., 2021. Future smart connected communities to fight covid-19 outbreak. Internet of Things 13, 100342. |

**A2. Conclusion**

To be completed individually.

I think that the title of my project will be something like the following:

Use the Django framework to build a Healthy Living Community network.

I will produce a

The final product is a community website to exchange and chat about research topics as well as problems that users are facing. It allows users to create chat rooms to research and exchange knowledge and experiences in leading a healthy lifestyle. In addition, the application allows users to make friends with others and can chat privately with each other for further discussion. The site allows users to manage profiles and chat groups they create. Searching for chat rooms and friends is also a function on the site.

This is useful because.

The product was created with the purpose of building and operating a healthy learning and exchange environment for users in the community. It provides an environment to exchange, learn and share experiences and healthy lifestyles to protect your health. Besides, the website allows users to make friends with friends on the website to exchange knowledge, experience and expand relationships. In short, the website will provide a community and environment for programmers who want to self-study and exchange knowledge with others, connecting them with each other through making friends and sharing experiences with each other.

I will evaluate how well my project’s product will perform by

Opinions and reviews from surveys from system users. Indicates the user's wishes and requirements for the system.

This idea would be better if

I will use HTML, CSS, JavaScript to design the user interface so that it is friendly and easily accessible to all audiences. For the functions included in the system, I will use the Django framework with the MVT model to implement them. In addition, some functions such as notifications, chat, etc. I will use WebSocket to help them operate real time.

**Present your Report.**

Bring your two-page report and the Journal logs to the project tutorial class to present.

**A3. Planning for this module**

Make an individual work plan for this module in 12 weeks. Please do not insert this plan into your project proposal.

Including:

* Milestone and Deliverables for each week.

Week 1: Define project area. Define project. 90%

Week 2: Define project objective. Define project scope.

Week 3: Define the project’s hypothesis. Define project’s purpose.

week 4: Conduct research in related works or technologies. Read newspapers and synthesize necessary information.

week 5: Activiti and timescale

week 6: Research approach and methodologies and result

* Milestone: Report research results to the instructor

**Week 9, 10:**

* Milestone: Write a draft project proposal

**Week 11:**

* Milestone: Report draft project proposal to the instructor
* The percentage of completion: 90%

**Week 12:**

* Milestone: Complete project proposal
* The percentage of completion

You will give me a report follow this plan each week.