

Women Mentorship Application using PHP/MySQL

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Abstract: *Almost 1 million engineers graduate each year in India, out of which only 15-20% are women which clearly depicts that women are highly underrepresented in STEM. It's 2022 and who says women can't do the same thing men can. Women can also pursue their passions, society is so close-minded that we don't see the potential that they have in their fields. I am a woman and I know what I am capable of and so should you! Gender inequality is everyone's issue and not just a women's issue. India is a tough place for women even before they are born. Women are not even accepted as human beings, they are treated with injustice and inequality, and they are denied and neglected even in developed countries. Right from childhood women face lots of struggles right from the time they are born, in rural areas people do not even consider educating or sending their daughters to higher studies, WHYYYYY???. Keeping this problem in mind, we have developed an application called Potenshe which is a web application designed to help women unleash their inner power to advance their skillset, rights, and opportunities for women around the globe. Our aim is to bridge the gender inequality gap and intersecting issues, connect with leaders around the world, and access opportunities in the area nearest to their location!.*

Keywords: Gender Equality, STEM, Potenshe

I. INTRODUCTION

Gender inequality being one of the most crucial topic nowadays in tech industry. Most young girls lose their interest in STEM subjects which ultimately leads to losing their confidence and hence they fear of pursuing careers in STEM. India is slowly being the innovation hub of the world and research conducted by national survey demonstrates that women hold just 26.7% of tech-related jobs. The total number of women in tech-related positions decreased by 2.1% from 2020 to 2021. Almost 1 million engineers graduate each year in India, out of which only 15-20% are women which clearly depicts that women are highly underrepresented in STEM. Keeping in mind the challenge to encourage more women to pursue career in STEM fields, we chose three UN goals which are Quality Education, Gender Equality, Women's Empowerment, and Reduced Inequalities. In India, there is an ancient stabilized mindset of the society which considers men as the head of the family and women as the neck of the family. Women are always considered less than men and are always judged on their potential of not doing things beyond a particular limit i.e in childhood boys are educated and are always told to aim for high ambitions like Engineer, Doctor, and every other thing but on the other side, girls are not even educated and sent to schools. These triggering and biased mindsets of society lead to choosing this problem. We aim to reduce this inequality and gender bias which would ultimately result in increased participation of women in the STEM field. Through Potenshe, we can bridge this gap together and help young women unleash their inner potential and reach great heights in their careers. The term potenshe comes from unleashing the potential of women in technology.

II. LITERATURE SURVEY

Existing System : There are a lot of charitable organizations and NGOs who are building women-centric community and are really working for the betterment of the society. There are a lot of online portals to start a 1-1 mentor sessions like topmate.io, memboro, etc but these are paid portals and not everyone can afford them and trustless. Additionally,

there are a lot of mentors and influencers who try to guide college students and also have their own classes but these are also paid ones.

Comparison of Existing System : There are a lot of NGOs in the existing system. There is no trust in the existing system. In NGOs there are a lot of difficulties. Everything is done manually, so it is very difficult to keep the community and interaction going and in long run it could just be inactive. The biggest disadvantage of most NGOs there are exceptions is that they are not able to scale up their success. NGOs have many workers, and the effort they put in is considerable. But, when they succeed, it is often in a limited area. And, they cannot easily scale up. The new system would be scalable application using Nodejs, MongoDB and Machine Learning. This system would facilitate to improve the gender inequality and thrive for women empowerment and helping them build their unicorn career.

Disadvantages of Existing System :

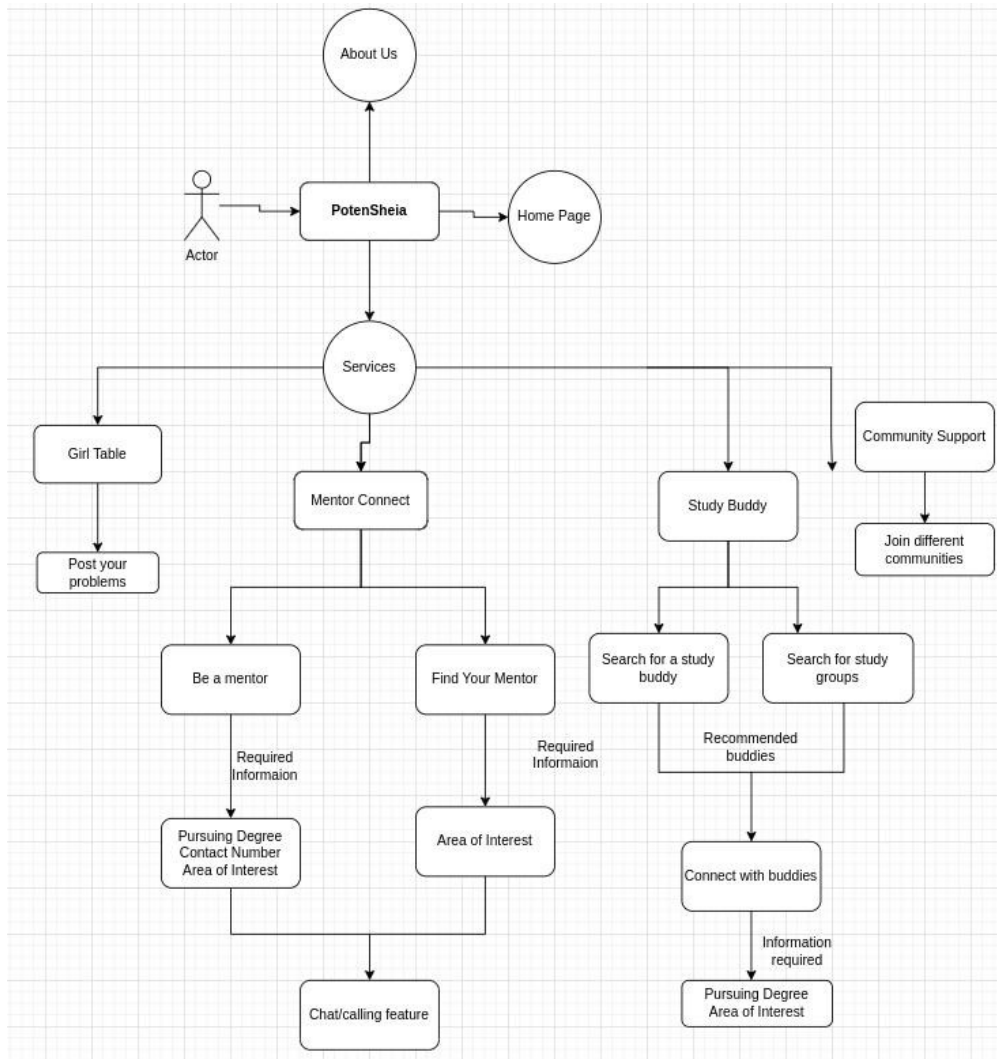
- Existing system is not scalable and they don't have 1-1 mentorship support, opportunities and a platform where individuals can discuss their queries.
- The biggest disadvantage of most NGOs there are exceptions is that they are not able to scale up their success.

III. METHODOLOGY

An automated Smart Agriculture Robot is designed which will be operated by Wifi Module and Arduino UNO. A specialized application is designed for the user from where the user will give request commands and the Following Mechanism will be executed.

- Movement of the Smart Agriculture Robot:-The motion of the smart agriculture robot is controlled by using the application created.
- Soil Moisture Level Sensor Mechanism:-The Servo motor starts moving as the command has been received. This Servo Motor will make the Up-Down movement of this Soil Moisture Sensor and give the input value of soil moisture to the Water Pump for further irrigation process.
- Water Irrigation Mechanism :- Moisture Level Sensor will detect the Soil moisture from the soil. The result will recorded as well as the command to Water Pump will be given. Water Pump will get switched ON and water will be supplied to farm. Condition for Water Pump to Switch ON-“Moisture level < Threshold moisture”.
- Seed Sowing Mechanism:-If a farmer wants to sow a particular seed, command will be given to this mechanism by farmer through application. The Sowing Plate will move back and forth by using Servo motor and helps the seed to be sowed into field with a particular rate.
- Movement Detection using IR Sensor:-If any intruder or an obstacle comes in between the crops and farms will be detected by the IR Sensor and user will be notified with it

Flowchart:



Required Modules

Hardware Requirements

- Windows
- Linux

Software Requirements

- VS Code

Technologies Used

- HTML
- CSS
- PHP/MySQL

IV. RESULT

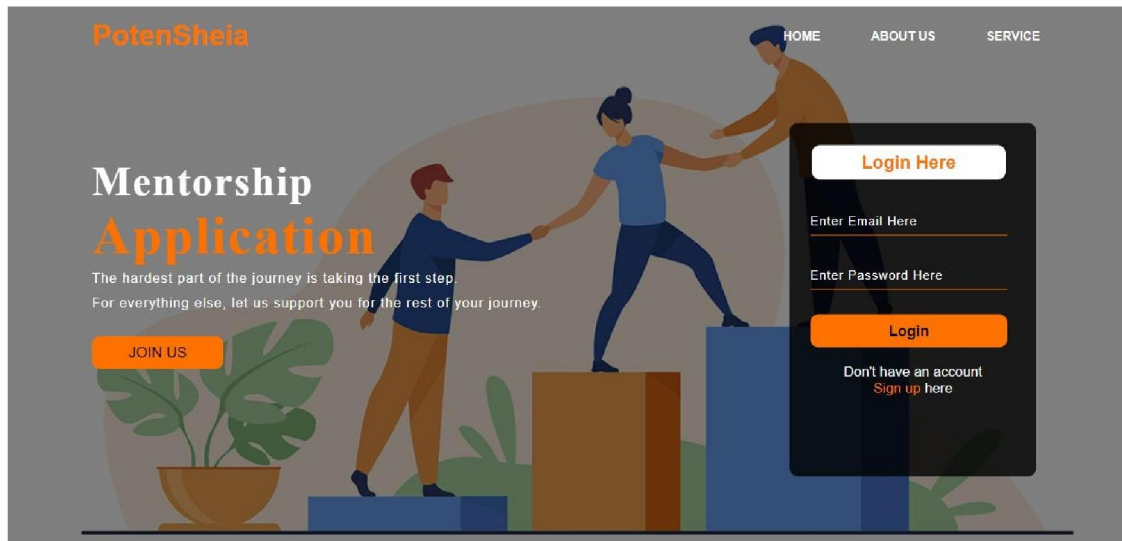


Fig.1.Login WebPage

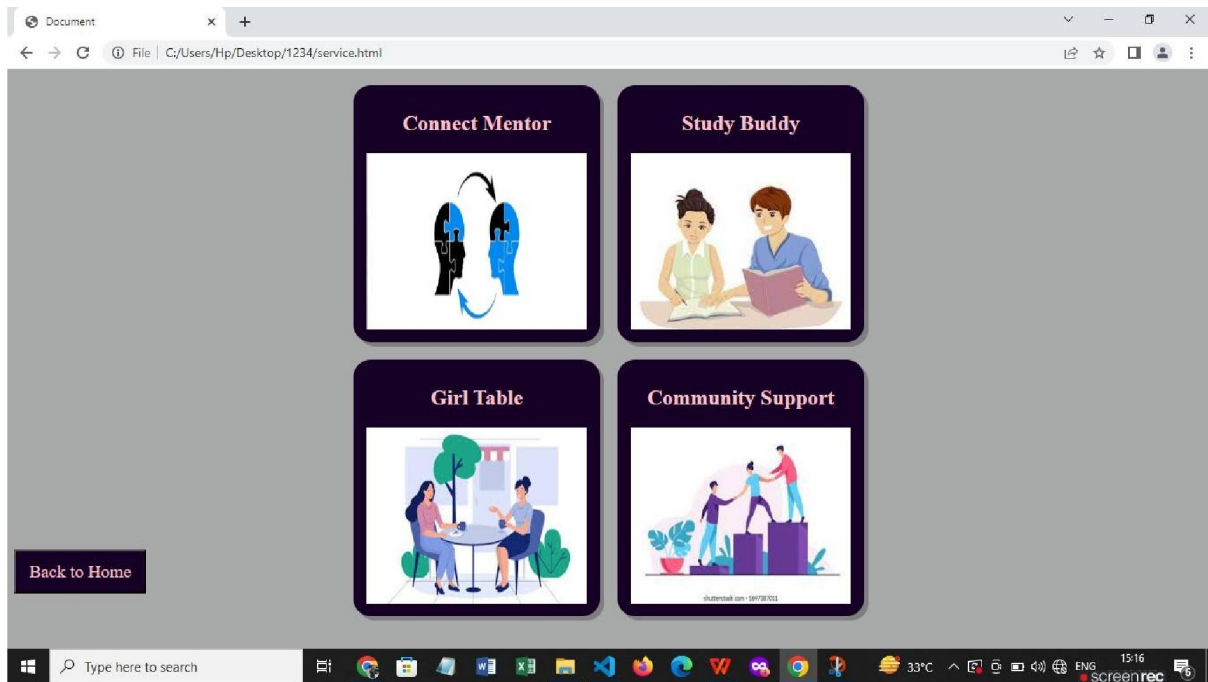


Fig . 2. Services

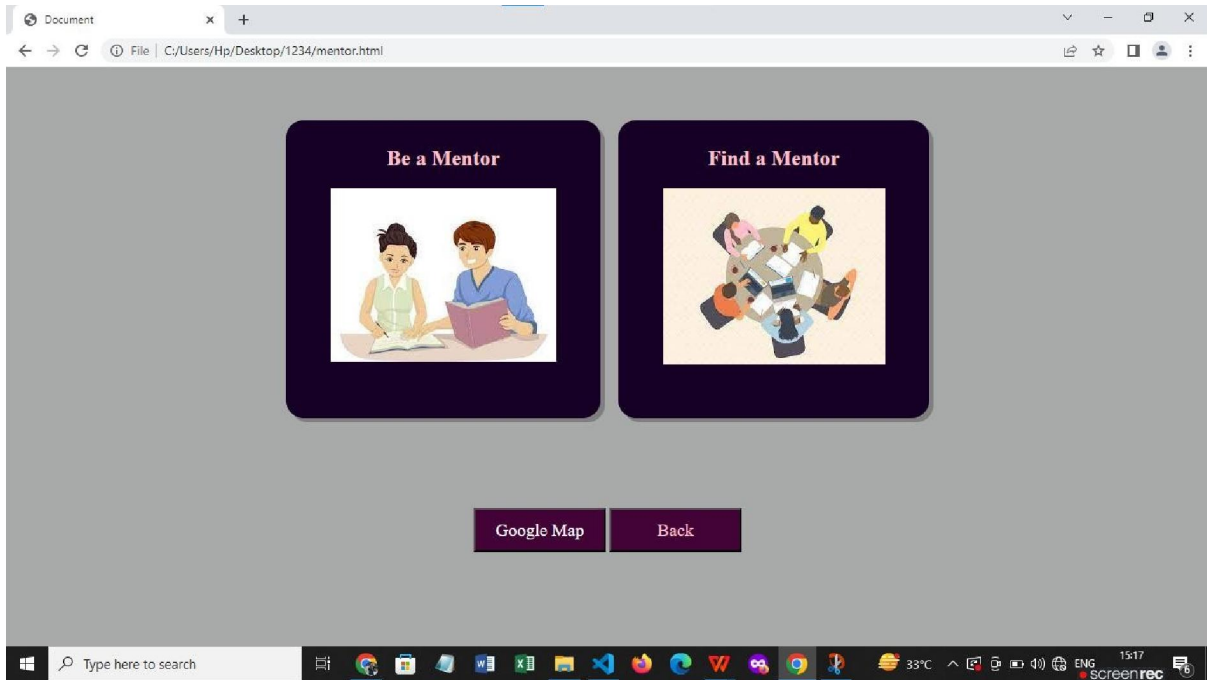


Fig.3 Mentor Connect

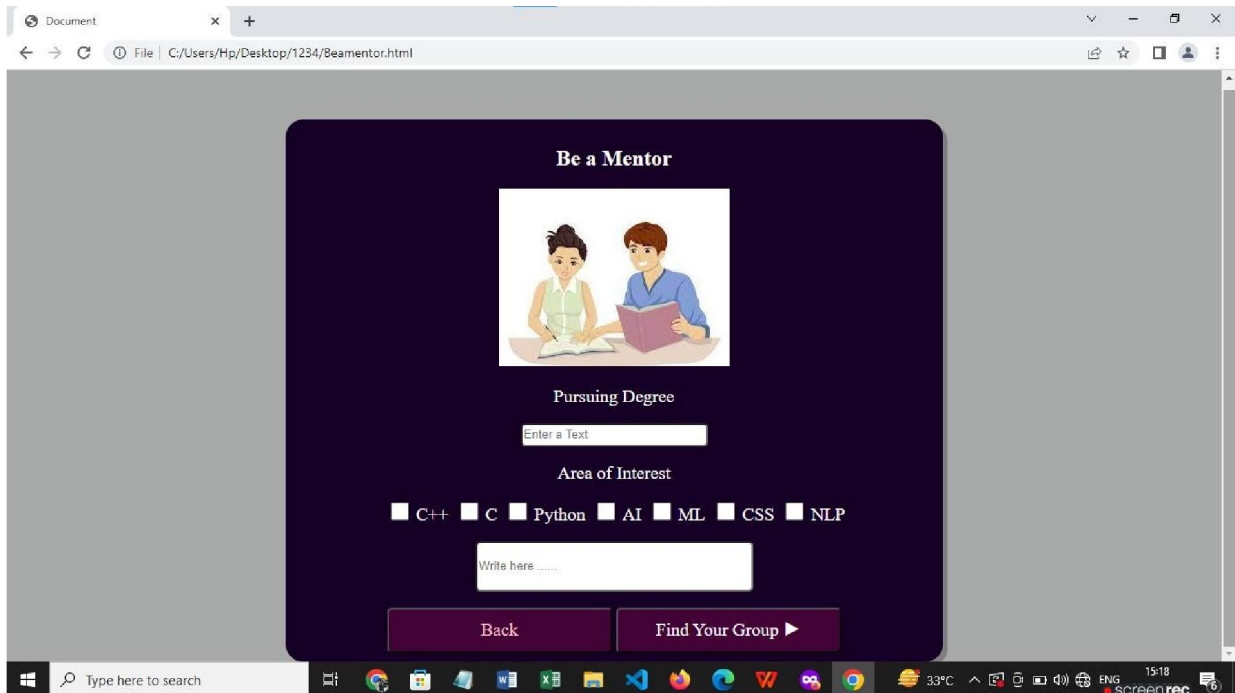


Fig .4.Be a Mentor

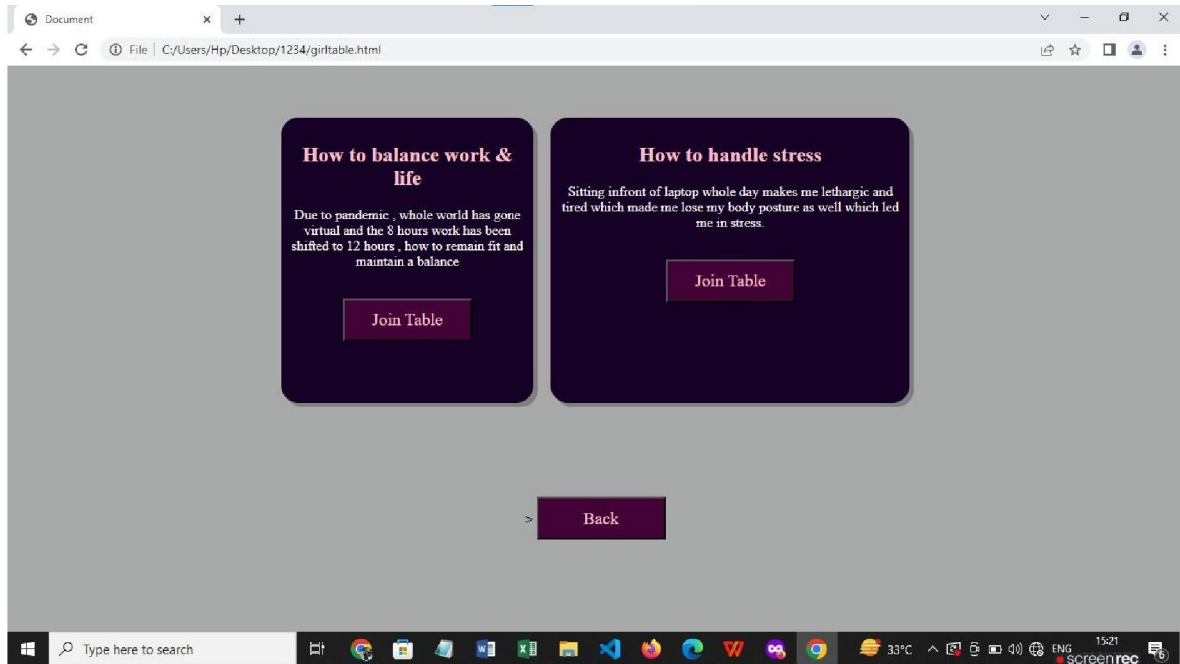


Fig. 5.Girl Table

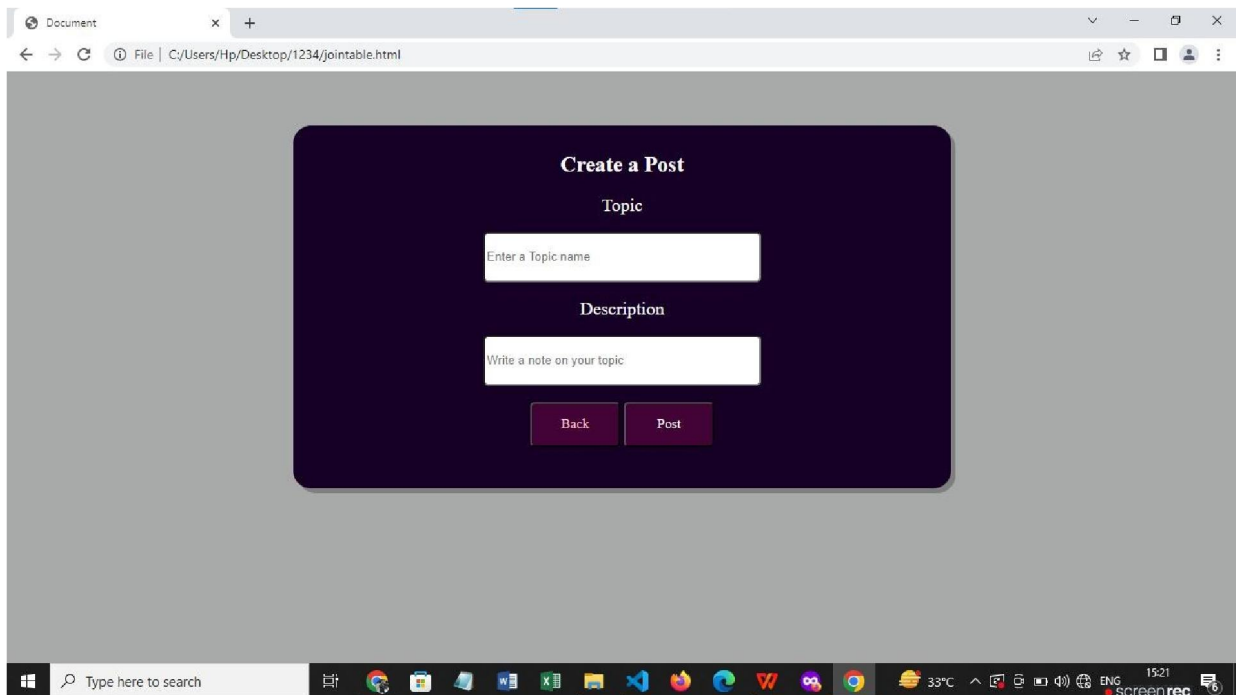


Fig 6. Create a Post

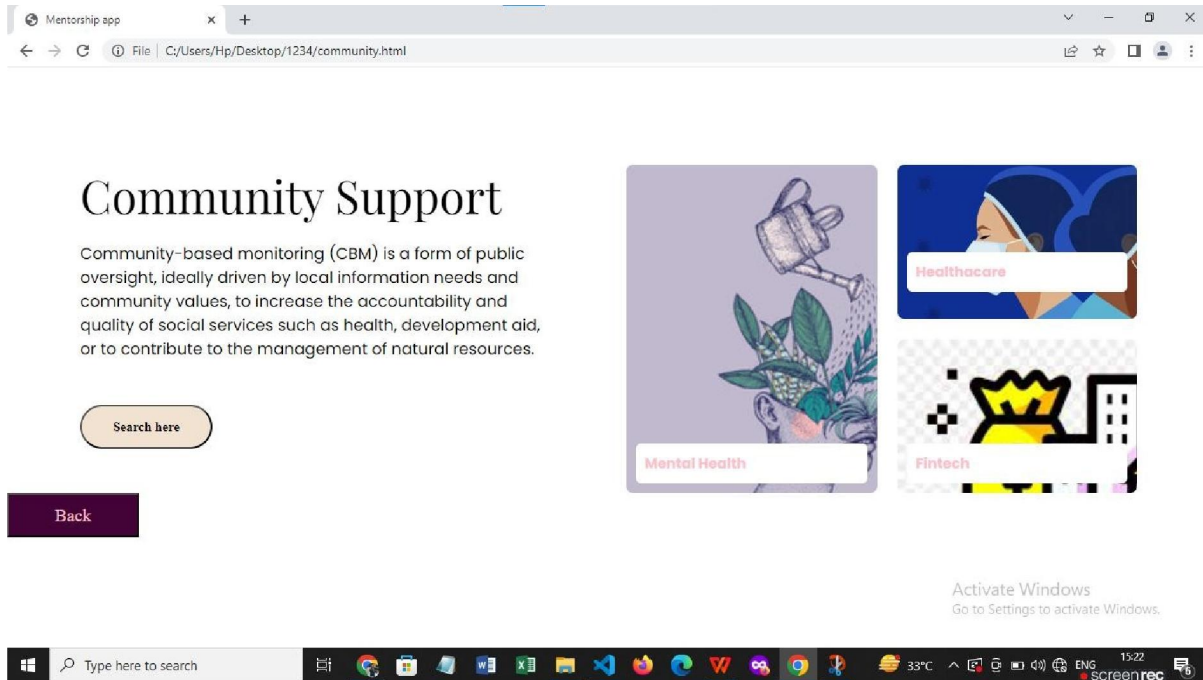


Fig . 7. Community Support

V. CONCLUSION

IOT replaces humans in continuously monitoring, testing and evaluating the conditions. Over the last dozen years, technology has come a long way with the booming Smart agriculture IOT system and can help the agricultural sector in many ways and make significant improvements to the way of use water and monitor crops, helping industries like agriculture become more efficient and save money. The point of smart agriculture technology is to get farmers to work smarter rather than working harder. The key factors farmers want to monitor are temperature and humidity, Soil moisture sensors. IoT will help to enhance smart farming. Using IoT the system can predict the soil moisture level and humidity so that the irrigation system can be monitored and controlled. IoT works in different domains of farming to improve time efficiency, water management, crop monitoring, soil management and control of insecticides and pesticides. This system also minimizes human efforts, simplifies techniques of farming and helps to gain smart farming. Besides the advantages provided by this system, smart farming can also help to grow the market for farmer with single touch and minimum effort.

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