In this project, my teammates and I have planned and developed an AIErgonomic Chair, which we want to help people's spines do not have any bone issues when they are old and minimize the risk of scoliosis. My team started this project because it has been famous for people in the 4.0 era, mainly because the COVID-19 pandemic makes them work and study at home. That is the reason people choose to use AI Ergonomic chairs. They will demonstrate how we approach this project and how far we've progressed in AI Ergonomic Chair features and outcomes.

In the Covid-19 age, people must work from home. That implies that some companies are shifting from traditional office work to online labour, and using seats that look to be trusted coworkers increases the efficiency of online employees. Many young people have confronted the spine because they often sit in the wrong posture, especially this problem that happens in children aged 10 to 15 years old, both gender are affected equally. Scoliosis has impacted individuals at the Covid-19, according to figures from the American Academy of Neurological Surgeons (AANS). This causes people to work and study online from home. If this amount is maintained, it will be hazardous to people's physical health in the future, particularly for youngsters, who require the highest degree of protection possible for their growth and development. The AI Ergonomic Chair project, on the other hand, was created to address this issue and protect people's spines.

According to those problems, our project has improved the product to avoid bone issues such as scoliosis, which have increased significantly, and current ergonomic chairs are lacking. That means our project needs the bending design of the chair to provide complete back support and adjust to maintain a slight backward tilt. Along with adding or removing additional elements, they may customize their chairs to suit each body form so that the chair is made of net, which absorbs sweat better than canvas, commonly used in chairs. That means our project wants to help people feel more comfortable and reduce the likelihood of getting it from the spine or skin, which helps us increase productivity. The AI Ergonomic Chair is popular with two types of users: office workers and people who have a computer setup such as PewDiePie and employees who use the chair to design their room for work or study online. Besides that, we have chosen two stores to sell our products, which have a delivery that helps people do online shopping, such as GEARVN and Phong Vu. Hence, we need and want development, and we choose technology stores to serve people's lives.

The AI Ergonomic Chair has several built-in features that help people feel more comfortable by detecting the back of their bodies and automatically adjusting to fix the proper posture and adapt as their bodies move. These factors indicate that the AI will use the sensor to scan the user's body form and determine the ideal chair design for everyone. First, the AI will utilize the sensor to track the user's body type and determine which chair design is optimal for everyone. If a person has a long back and a broad waist, artificial intelligence will adjust a chair to have a long back and a huge seat. Artificial intelligence will also learn the user's sitting form and alter the chair's look automatically. Consider a person sitting on a seat cushion with their legs crossed; artificial intelligence will expand or develop a little flat in the middle of the leg chair for people to rest their feet.

Furthermore, due to the flexible connection with the chair, the chair adapts its shape to the activity being done, such as typing, which needs a strange chair, reading, which necessitates a soft, sofa-like chair, and gaming, among other things. Those may control the AI chair by giving it complete directions, such as moving the seat cushion up and down or playing music, because we'll equip it with small speakers on both sides to help people who want to relax while listening to music. People may use their phones to operate the chair and do more intricate actions and utilise the command by chair app on their phones. As a result of the integration of artificial intelligence (AI) with ergonomic chairs, the chair becomes wiser. It's also more suited to respond to each customer's posture, offering superior illness prevention. Therefore, innovation and solutions for our project can develop our products to serve people who want to have a better life.

We believe that many ordinary folding chairs are utilized in the office and school, which have vertical forms and cause individuals to sit for long periods, creating back discomfort. Furthermore, some seats are of lower quality than the AI Ergonomic Chair, causing backaches and causing people to sit with their faces down, leading to scoliosis twisting. Many schools in Vietnam, for example, have employed these ordinary folding chairs for kids who do not sit properly. That is why we must investigate the various sorts of chairs available, ranging from business chairs to gaming chairs. However, everything always has many negative things. The office seats, for example, are tiny and rough, while the gaming and manager's chairs are made of leather, which does not absorb sweat properly.

As a result, we've opted to employ the ergonomic chair, which has both pros and downsides. When individuals use an ergonomic chair, they get a large of benefits for themselves, such as a healthy workplace, which means that ergonomic chairs have a variety of health benefits, such as enhanced blood circulation and reduced mental and physical exhaustion. Along with the greater productivity that I have mentioned above, the ergonomic chair helps people have a heightened comfort level, supporting them to concentrate and do high-quality work. Besides that, this chair has some disadvantages that raise the likelihood of developing health problems related to a sedentary lifestyle. Users who are too short or tall and weigh more than the chairs are designed to hold may not use ergonomic chairs to their full potential. When using ill-fitting seats, such folks are bound to feel uncomfortable. According to those advantages and disadvantages, that is the reason my team has improved this chair by adding AI technology for people to avoid any issues. Hence, there are all things we have developed our product for people can use a better chair.

Currently, we are making the start-up investment to call for capital for the project. Because, in the estimate, this project will spend much money on improving AI technology, and our partnership has a discomposure in this term. However, we believe in our project, which will bring vastly outcomes based on their benefits effect on society. To attract investors, we are progressing an AI that can automatically be scanning the customers back, showing our ability to make this project coming reality.

If we handed this project to other teams at the end of the semester, they would want to know how much the project spent, what technologies are used, and its purpose.