Vision:

1. What is your product, at a high level?

Our product is an attendance system.

2. Whom is it for?

It is for any institution that requires a record of attendance.

3. What problem does it solve?

It makes recording attendance easier and more efficient. The product can show who came and when, without interference of anyone else. It guarantees the specific date and time.

4. What alternatives are available?

An alternative is employees writing on paper when they came and when they will leave. Another alternative was using fingerprint.

5. Why is this project compelling and worth developing?

Because it will fix a major issue and it will be easy to use. It saves employee's time and effort. It also keep track of everyone who enters and leaves the place with a timestamp.

Approach:

1. Make it clear that the system can be built, making excellent use of the available resources and technology. What is the system architecture?

The system will use a camera to detect the person's face. Using OpenCV, the system will be able to detect the person and will save his information and timestamp to be reviewed later.

2. What components and functionality will it have? How are you going to implement the functionality?

   - The system will require several photos of each employee and their details. The system should know the time. To implement this, the system should have a great number of dataset with several photos for each employee. More photos will ensure better accuracy.

3. What is interesting about this project from a technical point of view?

   We will get the chance to learn more about computer vision along the way. We will also enhance our skills in planning, trial and error, in addition to our technical and programming abilities.

Challenges and Risks:

1. What is the single most serious challenge you see in developing the product on schedule? How will you minimize or mitigate the risk?

The risk that we might face is that it may not recognize someone due to any change in appearance or that it mixes someone with someone else. To minimize the risk, the system should train a lot and be offered a great number of dataset to increase its accuracy and guarantee its efficiency.