**

**Middle East Technical University**

**Electrical - Electronics Engineering Department**

***EE493 - Engineering Design I***

***Weekly Report***

**Group Name:** λambda

**Date:** 07.11.2021 *(Week 3&4)*

**Design Coordinator:**

Associate Professor Dr. Elif Vural

**Members of Company :**

**-**Berk Erhan Yüksel

**-**Necdet Can Sönmez

**-**Mustafa Barış Emektar

**-**Alper Saraç

**-**Furkan İtkü

1. **Done During Week 3**
2. At the weekly meeting, the members were asked for their opinions on the projects. At this stage, the advantages, disadvantages, difficulty level, and suitability of each project according to the group members were determined.

* The basic requirements of each project were discussed, and the suitability of the existing skills of each member was considered to determine which projects were the most suitable for the group.
* The subsystems that would need to be implemented for each project were discussed. Which aspects of the project would be easy or hard were also talked about. Many factors, such as flexibility and budget were considered.
* Furthermore, for each project, what more could be added into the core requirements of the project was brain-stormed. Customer and problem-oriented ideas that could be implemented were shared. Members’ opinions and interests about the projects were asked.
* According to this discussion and voting, the most suitable project for the group was determined as “Cısss!”.

1. For the Business Statement Report, the mission and vision of our company, the basic elements of the company, and the employee structure of our company were determined.

* A report template was created, and the report was written on this template according to these determinations.
* It was decided that all future reports be written in a fixed format. A logo was developed.
* The group talked about areas they were interested in and what they were skilled in to determine the mission and vision of the company. Each member presented what they were promising to contribute to the company.
* The report was broken down into pieces and assigned to different members to write. Then, each member reviewed each others’ parts, and the report was put into a uniform format.

1. When talking about projects, it was determined which modules each project would consist of in general. If we want to talk about these modules briefly:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Orbiter** | **Home Security System** | **Intelligent Agriculture at Home** | **“Cısss!”** | **Smart Shopping Cart** |
| **Power Module** | + | + | + | + | + |
| **Motion Module** | + |  |  |  | + |
| **Proximity Detection Module** | + |  |  | + | + |
| **Image Processing Module** |  | + | + |  |  |
| **Database Module** |  | + |  |  |  |
| **Central Processing Module** | + | + | + | + | + |

1. **Planned for Week 4**
2. A detailed analysis of candidate projects should be done to have a clear idea about their contents and their challenging sides. The group debated about each project beforehand, so it is a better fit to focus on the projects that are in line with the member’s needs and skills. For these projects, some of the details of the contents of their subsystems should be debated. There is no need to have an exact idea about the design of any project at this point. However, this is still beneficial to the project selection process as it enables us to brainstorm about the specifics.

1. While modules needed for each project were determined, a more detailed discussion about the specifications of the modules needs to be done (skill requirements, budget usage, and so on). Furthermore, the group had debated about what more could be added to the projects; but the feasibility of such additions needs to be considered. The opinions of Ms. Vural could be valuable for this.