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| Assignment 1 | | Project Summary | |
| Github link | | https://github.com/ilian02/Little\_Camera | |
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| Project author | | | |
| № | Name | | Faculty Number |
| 1 | Iliyan Georgiev | | 4MI0600132 |

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| Project name | ESP-Controlled Camera |

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| 1. Short project description (Business needs and system features) |
| The project aims to create a smart camera system where one ESP32 microcontroller controls the movement of an ESP32’s servos, which have attached an ESP32-CAM microcontroller that streams footage to a webpage. The hardware implementation is based on two ESP32 and one ESP32-CAM, equipped with following sensors and parts:   * *High resolution camera* - used for real time video capturing and sending to a browser, also used to scan for human faces. * *Buttons for taking input from the remote controller.* * *Two servos for horizontal and vertical movement of the camera.* * *Battery module.*   There is also a mobile web application allowing the users to see the video from the camera and other information from the sensors, such as face detection and controlling the camera parametres.. |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Move camera** | The User can move the camera by pressing buttons on controller-ESP for movement in different directions. | User |
| * 1. **Change camera stream** | The User can control the camera stream from the webpage. | *User* |

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| 1. Main Views (Mobile Web App) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Presents the camera feed and information about face recognition and other information. | / |