Software Project Management - Exercise 1

Choose one of the following two subjects (A or B).

A. Final project subject:

- 1. Describe the idea and software project in a single paragraph.
- 2. What is unique about the project?
- 3. What are the main mandatory features for the first version? Which features are nice to have? Which features are for future work?
- 4. Target Audience: Who is going to use your project? Why? Describe 3 different personas, and the needs of each persona.
- 5. Competition: Who are the top 3 competitors? What do they do well? Provide links to competitors. What are the advantages/disadvantages of the competition?
- 6. User Stories: draw a story board, and write 5 user stories.
- 7. Prototype: create a rapid prototype using InVision (sign up for a free trial) including:
 - a. User interface screens.
 - b. User experience, connecting between UI elements and screens, getting from a to b.
 - c. Provide a link to your prototype as well as screen shots.
 - d. Verify that your prototype answers the user stories described, by showing a screen, and answering what it's for?
- 8. References: provide any references and related links used.

B. Self-driving car subject:

- 1. Describe the various benefits of self-driving cars in a single paragraph.
- 2. Target Audience: Who is going to use self-driving cars? Why? Describe 3 different personas, and the needs of each persona.
- 3. Competition: Find 5 different self-driving cars online that are currently driving on roads. Provide a link to each. Provide a comparison between the vehicle types, sensors used in each, and stage of on road testing or deployment.
- 4. Watch the following video https://vimeo.com/192179727 and describe 8 different visual inputs which are being processed (as shown on the right and bottom parts of the screen).
- 5. Describe an architecture for fusing these visual inputs together into a meaningful representation and method for learning 3 outputs of steering angle, throttle, and brake (as shown on the left part of the screen). Describe your assumptions.
- 6. References: provide any references and related links used.