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Milestone 1b – Project Manager Role

**Planning and Requirements Phase:** The first step of the planning and requirements phase is to create a project plan that contains tasks, milestones, and other declared decisions. This is project milestones 1a and 1b. The team member responsible is the project manager, but all team members must participate and include their own section. This will take us weeks 1-3. The second step of this phase is the requirements, in this step we will provide documentation that specifies the functionality of our application, and the user needs of the application. This step will take us weeks 3-5 and will require the requirements analyst and the test engineer to work together to create the requirements. The last step of this phase includes the technical design, which includes high-level technical design, that might require a more detailed UML (unified modeling language) diagram, and more specific technical details such as languages, database, and then also details more specific to our project itself. This step will require most of the team, but the software engineer, data engineer, and deployment engineer will have the most input on this step. This step will take us weeks 5-8. By the end of week 8, our project should have detailed plans and requirements to be able to move onto the development phase.

### **Development Phase:** The first step in the development phase is creating a basic website that accepts users and assigns their roles. This website will allow a user to create an account and log in under their profile and role, nothing else further. This will take weeks 9-12 to create and require the software engineer and data engineer. The requirements analyst and project manager will be relevant for all these steps but not directly involved unless things are not getting done or requirements are not being met. The deployment engineer would also be involved in this phase because they must ensure that the code can mesh into one repository without issues. The next step is creating a video upload and storing system, this would allow the coach to upload videos and store the videos. This would take weeks 12-14 and would require the software engineer and data engineer. The next step would allow the coaches to assign the videos to players and ensure that both the coaches and players see when videos are assigned. This would take weeks 14-16 and require the software engineer and data engineer. The next step is allowing players to watch the videos with all necessary options and allow the coaches and players to be able to comment and see others’ comments on videos. This would take weeks 16-18 and would require the same team members as the rest of this phase. Lastly in the development phase, the developers will make sure that all these features work together and then add any minute details or requirements that have not been added yet. This would take weeks 18-20 and once complete, will allow the team to move to the testing phase.

### **Testing Phase:** The testing phase requires users to test the app and report any bugs, issues, or complaints that arise during their testing. If any issues arise, the process gets pushed back into the development phase for fixing, the project can go back into the development phase as many times as needed. This phase will require the documentation created during the development phase so users know how to use the app and that any issues can be fixed more easily. This will require outside users, test engineer, requirements analyst, project manager, and obviously the software engineer and data engineer will be needed if this gets pushed back into development. This phase can range in time needed, but we will assume it will take weeks 21-25.

### **Deployment and Maintenance Phase:** The final phase of this project is deployment and maintenance, once deployed the project will always be in maintenance until we decide to end maintenance for the project. Once the project is deployed, barring any significant issues that were not discovered in the testing phase, the maintenance will only consist of minor changes, but the project will go through all the phases again but with much smaller timelines. The deployment will come in week 26 and require the deployment engineer and project manager to ensure the deployment goes smoothly. Maintenance will occur after week 26 and require the whole team to ensure there are no issues, and any issues that arise are taken care of through the full process.

