ICES4HU
Project Plan

1 Introduction

This project plan outlines a dedicated online assessment web application system for Hacettepe University called the Instructor and Course Evaluation System for Hacettepe University (ICES4HU). This system is designed to evaluate both lecturers and instructors, and students can provide feedback via an electronic questionnaire. Project organization, development process, and measurements, project milestones and objectives, deployment, and lessons learned information are given in detail.

2 Project organization

Team Member	Role A	Role B
Şura Nur Ertürkmen	Project Manager	Software Developer
Ayça Akyol	Software Configuration Manager	Software Developer
Ayşe İrem Yalçın	Software Architect	Software Developer
Can Ölçer	Software Analyst	Software Developer
Zübeyde Civelek	Software Tester	Software Developer

2.1 Details of Team Members Roles

★ **Şura Nur Ertürkmen (Software Project Manager):**

- The project needs to identify potential risks to the project, from planning tasks, timelines, and milestones, and develop plans to mitigate them.
- Responsible for ensuring that the project meets quality standards and testing requirements.
- Responsible for maintaining project documentation, including project plans, status reports, and risk assessments.
- She will work as a backend developer using **.NET**. She will write **SQL** queries for **SQL Server** database connections.

★ **Ayça Akyol (Software Configuration Manager):**

- Develops and documents the configuration management plan for the project that outlines the configuration management process, tools, and procedures to be used.
- She identifies and documents all configuration items (CIs) in the project, including software code, documentation, and hardware components.
- Manages changes to CIs, including tracking changes, approving or rejecting change requests, and managing the change process.
- Conducts periodic audits of the configuration management process and CIs to ensure compliance with the configuration management plan.

- She will work with **Vue.js, HTML,** and **CSS** as a front-end developer. At the same time, she will work in the backend part because she's familiar with the RESTful API architecture. Aside from these, she will connect the microservices.

★ **Ayşe İrem Yalçın (Software Architect):**

- She designs and develops software systems, taking into account factors such as performance, scalability, sustainability, and security.
- She provides technical leadership to the team, enabling them to follow best practices and make sound technical decisions.
- Responsible for integrating software systems and making sure they work together seamlessly.
- Optimizes software performance by identifying and resolving bottlenecks and ensuring system scalability.
- She designs software systems with security in mind and ensures that they are secure from the ground up.
- **.NET** will be used as the backend developer in the project. Here she will be responsible for coding the outline of the model.

★ **Can Ölçer (Software Analyst):**

- Analyzes software requirements to ensure they are complete, clear, and achievable.
- He creates functional features that summarize the functionality of the software, including use cases, process flows, and business rules.
- Creates specifications that outline how to build software, including system architecture, database schema, and APIs.
- By performing code reviews, testing, and debugging, it ensures that the software meets quality standards and is bug-free.
- He will work as a front-end developer on the project. Will make designs with **HTML-CSS** information.

★ **Zübeyde Civelek (Software Tester):**

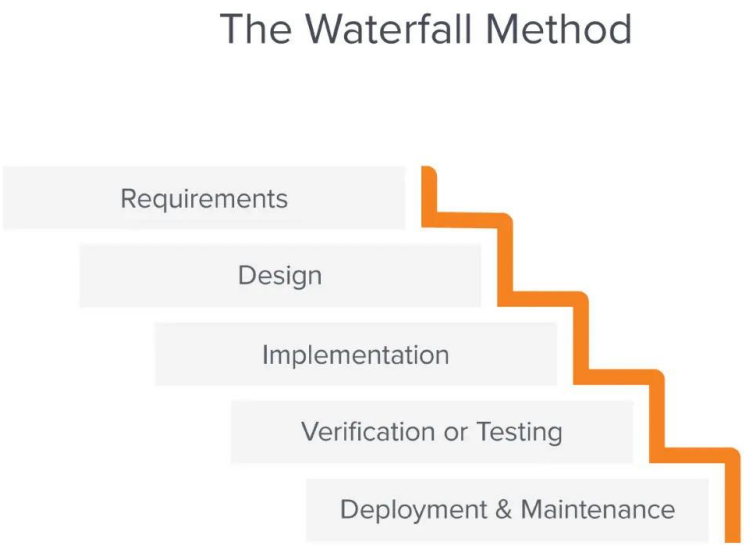
- Plans and develops test strategies and test plans that define the scope, approach, goals, and timeline of the test effort.
- Develops test scenarios that are compatible with test objectives and cover all functions of the software. Develops test data covering different scenarios and extreme cases.
- Executes test cases and test scripts to identify flaws, bugs, and flaws in software.
- Manages and monitors defects throughout their entire lifecycle. Generates test reports that summarize the results of the test effort. Provides information about test execution status, defects found, and problems encountered during the test run.
- She will be coding with **Vue.js** as a front-end developer in the project. Responsible for front-end progress.

2.2 Referencing / Neighboring Projects

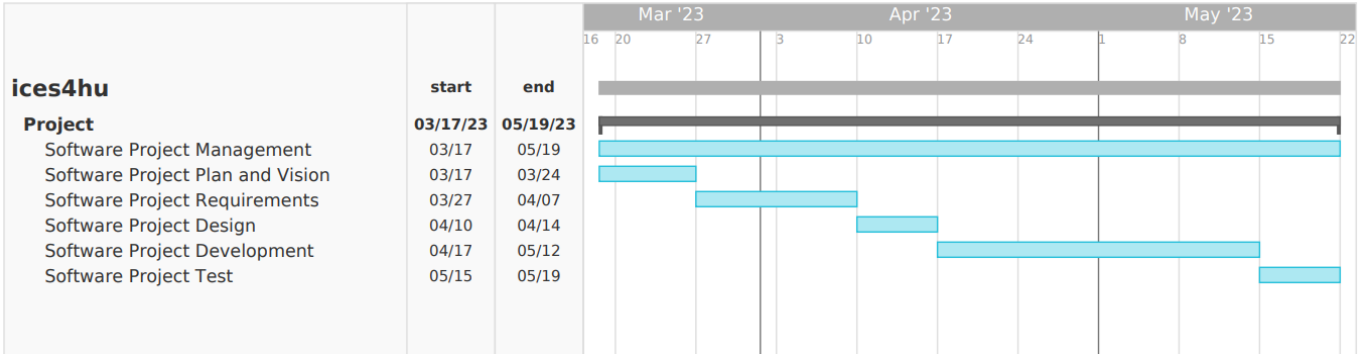
These systems are widely used by universities.https://www.ratemyprofessors.com/ can be cited as a reference. In addition to allowing assessments and feedback on this product in our product, students can also provide feedback about the course itself outside of the professor.

3 Development process and measurements

We have chosen the Waterfall development method for our project. Because the project's features and requirements were determined, the Waterfall method is more suitable for us than OpenUp and Scrum.



To tracking the progress, we will have weekly review meetings on Tuesday at 8 PM. We will track the process by reviewing Iteration Assessments, Project Burndown, Iteration Burndown reports, and these meetings. We will create a time budget by adding a margin to the estimated size of tasks.



4 Project milestones and objectives

Phase	**Iteration**	**Primary objectives** (risks and use case scenarios)	**Scheduled start or milestone**	**Target velocity**
Develop Technical Vision	I1	**Project Vision and Project Plan risks:** If the project vision is not realistic according to the team, the expected success in the project cannot be achieved. If the time and cost budgets in the planning process are not realistic, the project budget and time can be exceeded. **Mitigate Risks:** We will perform the necessary pre-analysis and planning process to ensure a correct understanding of the scope and requirements of the project. To make realistic and accurate estimates in the planning process, we will use data obtained from similar projects.	17/03/2023 - 24/03/2023	8 hours
Perform Requirements Analysis	I2	**Software Requirements Specification Risks:** Misunderstood or incomplete requirements can have a negative impact on the functionality of the application and can adversely affect the success of the project. Changes in requirements can cause the software to consume more time and resources than originally planned. **Mitigate Risks:** We will communicate regularly with project team members to ensure a correct understanding of the requirements. To increase the accuracy of the requirements, we will have multiple people verify the accuracy of the requirements.	24/03/2023 - 07/04/2023	20 hours

Develop the Software Architecture	I3	**Software Architectural and Risk Management Risks:** Software architecture is at risk due to technological factors such as the incompatibility of used technologies or the software not performing well enough on a specific platform. The risk management process requires the allocation and management of appropriate resources. Improper utilization of resources can prevent us from managing risks effectively. **Mitigate Risks**: Early recognition, intervention, and mitigation of risks are critical. Continuously improving software can help eliminate technological compatibility issues.	07/04/2023 - 14/04/2023	20 hours
Envolve the software Desing	I4	**Software Design Document and coding standards Risks:** Incompatible software design can lead to errors when system modules are not properly integrated and functionality is not tested. Coding errors can affect or cause errors in software operations. In particular, finding and correcting coding errors can be time-consuming, especially in large projects. **Mitigate Risks:** In the software design process, accurately identifying requirements and design specifications will help to create a well-formed SDD. Additionally, we will pay attention to coding standards as they help to increase software readability, maintainability, and security.	14/04/2023 - 12/05/2023	30 hours
Perform Required Software Tests	I5	**Software Test Report Risks:** If the testing process is not done sufficiently well, test reports can indicate that the software has not been adequately tested. In this case, the test report can lead to a misunderstanding about the quality of the software. **Mitigate Risks**: It is necessary to conduct the testing process correctly, determine the reporting format accurately, and fully cover the test scope.	12/05/2023 - 19/05/2023	25 hours

5 Deployment

Updates will be made on GitHub every week or every two weeks. The final product will be downloadable via the GitHub link:

https://github.com/b2200356065/ices4hu

6 Lessons learned

- We learned the definitions of the roles that should be in the software project, so we act more planned.
- We learned how to integrate the waterfall process tracking method into the project.
- We learned about the risks we may encounter in projects and we made plans about it.