Final Release of Software System

for

Online Student Representatives Election System

Version 1.0 approved

Prepared by Group 1

09.06.2023

Technologies That Have Been Used:

- Spring Boot
- React
- Next.js
- Amazon AWS
- Gitlab
- Docker
- Vercel
- PostgreSQL

Architecture of the Implementation:

The backend of the application is implemented using the Spring Boot framework and the application gets its data from a PostgreSQL database. For the frontend, React and Next.js are used. The backend is deployed on Amazon AWS server, and the frontend is deployed on Vercel. Docker is used as the containerization tool and Gitlab is used as the repository and to provide the CI/CD pipeline structure.

Implemented Use Cases:

- User Login
- User Logout
- User View Profile
- User See Election Results
- Admin Create Election
- Admin Announce the Election Date to Students
- Admin Re-election Process
- Admin End Election
- Voter Create a Candidacy Application
- Voter Cast a Vote
- Candidate Withdraw from Candidacy Test Case

Work Breakdown by Each Group Member:

Backend:

- Alper Kaan Gayretoğlu
- Kerem Yavuz Şenyurt
- Yaşar Mehmet Bağdatlı

Frontend:

- İsmail Günay
- Kürşat Çağrı Yakıcı
- Tuğçe Türkmenler

Deployment:

- Muhammed Efe İncir