

1st Software Release Report

Online Election System for IZTECH

Prepared by:

Group 11

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Tools used in the Project:

- **Backend**

- **ASP.NET Core WEB API (programming language):** is a framework for building web APIs using the ASP.NET Core platform, allowing developers to create RESTful services that can be consumed by various clients over HTTP.
- **Visual Studio 2022 (IDE):** is the latest version of Microsoft's integrated development environment (IDE) for software development, providing a comprehensive set of tools and features to streamline the process of building applications for various platforms, including desktop, web, mobile, and cloud.
- **Microsoft Azure (backend deployment):** Microsoft Azure is a cloud computing platform provided by Microsoft, offering a wide range of services such as virtual machines, storage, databases, and AI capabilities, allowing organizations to build, deploy, and manage applications and services on a global scale.
- **Microsoft SQL Server (database):** is a relational database management system (RDBMS) developed by Microsoft, commonly used for storing and managing large amounts of structured data. It offers robust features for data management, querying, and scalability, making it a popular choice for enterprise-level applications.
- **SmarterASP.net (database deployment):** is an online shopping comparison website that helps users find the best deals on various products by aggregating information from different retailers and presenting it in a user-friendly interface. ASP.NET could potentially be used as the underlying technology for building and powering the website's backend infrastructure.

- **Frontend**

- **React (programming language):** is an open-source JavaScript library for building user interfaces. It allows developers to create reusable UI components and efficiently update the user interface in response to changes in data, providing a flexible and efficient approach to building interactive web applications.
- **Visual Studio Code (IDE):** is a free and open-source source code editor developed by Microsoft. It provides a lightweight and highly customizable environment for editing code, with support for a wide range of programming languages, extensions, and integrated tools for debugging and version control.
- **Vercel (frontend deployment):** is a cloud platform for deploying and hosting websites and web applications. It specializes in providing fast and scalable static site hosting, serverless functions, and continuous deployment, enabling developers to easily deploy and manage their projects with minimal configuration and maximum performance.

- **Repository**

- **GitHub (project repositories):** is a web-based platform that provides hosting for version control repositories. It offers collaboration features, issue tracking, and pull request functionality, making it widely used for software development and open-source projects.

Use Cases That Implemented In 1st Software Release:

1. Login:

Use Case ID:	1000		
Use Case Name:	Login the system		
Created By:	Berkan Gönülsever	Last Updated By:	Berkan Gönülsever
Date Created:	19.11.2022	Date Last Updated:	06.12.2022
Actor:	Student, University Administration, Secondary Actor (ÖBS)		
Description:	Authenticated students can login their account.		
Preconditions:	None		
Postconditions:	POST-1: Students can access the system. POST-2: The student is directed to the home page.		
Priority:	Medium		
Frequency of Use:	Whenever students want to use the system.		
Normal Course of Events:	1. The user goes into login section. 2. The user enters their user ID and password. 3. The system gets related information from ÖBS. 3. The system matches the information sent by the user with the information coming from ÖBS. 4. The system accepts the user. 5. The user accesses the home page.		
Alternative Courses:	1000.AC.1) User ID or the password is not correct. <ul style="list-style-type: none">1000.AC.1.1) The system notifies that information is not correct.		
Exceptions:	1000.EX.1) The system was unable to get related information from ÖBS. <ul style="list-style-type: none">1000.EX.1.1) The system informs the user about the error.		
Includes:	None		
Special Requirements:	None		
Assumptions:	1) The user is connected to the Internet.		
Notes and Issues:	None		

2. Logout:

Use Case ID:	6000		
Use Case Name:	Log out from the system		
Created By:	Fatih YELBOGA Osman ALTUNAY	Last Updated By:	Fatih YELBOGA Osman ALTUNAY
Date Created:	18.11.2022	Date Last Updated:	06.05.2023
Actor:	Students, University Administrations (all system users)		
Description:	Authenticated users can log out from the system.		
Preconditions:	None		
Postconditions:	Redirect to log in page.		
Priority:	High		
Frequency of Use:	Whenever the user wants to log out from the system.		
Normal Course of Events:	1- The user clicks on the profile. 2- The user logs out from the system by clicking the log out button on the profile.		
Alternative Courses:	None		
Exceptions:	None		
Includes:	None		
Special Requirements:	None		
Assumptions:	None		
Notes and Issues:	None		

3. View Announcements:

Use Case ID:	1004		
Use Case Name:	View Announcements		
Created By:	Berkan Gönülsever	Last Updated By:	Berkan Gönülsever
Date Created:	26.11.2022	Date Last Updated:	06.12.2022
Actor:	Student		
Description:	It is the panel where students can see the announcements from the student affairs.		
Preconditions:	PRE-1: Student logged into the system.		
Postconditions:	POST-1: Student viewed the announcements.		
Priority:	Medium		
Frequency of Use:	Whenever student wants to view their announcements.		
Normal Course ofEvents:	1. Student selects the announcements section from the menu. 2. The system checks if there is a new announcement or an existing announcement is edited. 3. There is no change in announcements. 4. The student accesses the announcements.		
	5. The student views available announcements.		
Alternative Courses:	1004.AC.1) There is a new announcement in the announcements section. <ul style="list-style-type: none"> 1004.AC.1.1) The student accesses the announcements. 1004.AC.1.2) The student encounters a notification which tells there is a new announcement. 1004.AC.1.3) The student views the content of the new announcement. 1004.AC.2) An existing announcement was edited. <ul style="list-style-type: none"> 1004.AC.2.1) The student accesses the announcements. 1004.AC.2.1) The student encounters a notification which tells an existing announcement has been changed. 1004.AC.2.1) The student views the content of the modified announcement. 		
Exceptions:	1004.EX.1) The system failed to check if there is a change in announcement. <ul style="list-style-type: none"> 1004.EX.1.1) The system informs the student about the error. 1004.EX.1.2) The system shows the unchecked state of the announcements until the error is fixed. 		

Includes:	<ul style="list-style-type: none"> • 5000.Add Announcement • 5001.Edit Announcement
Special Requirements:	None
Assumptions:	1) The student is connected to the Internet. 2) The owner of the account is logged into the account.
Notes and Issues:	None

Test Cases That Implemented In 1st Software Release:

1. Login:

Test Scenario ID		Login-1		Test Case ID		Login-1A	
Test Case Description		Login – Positive test case		Test Priority		High	
Pre-Requisite		A valid user account		Post-Requisite		1- Students can access the system. 2- The student is directed to the home page.	
Designed-by		Fatih YELBOĞA		Executed-by		-	
Design date		20/04/2023		Execution date		-	
Test Execution Steps:							
S.No	Action	Inputs	Expected Output	Actual Output	Test Env.	Test Result	Test Comments
1	Launch application	https://election.iyte.edu.tr/login/	Log in page of the election website	-	FIREFOX 85.0 (64-BIT)	-	-
2	Enter correct Email & Password and hit login button	Email id: test@xyz.com Password: *****	Login success	-	FIREFOX 85.0 (64-BIT)	-	-

Test Scenario ID	Login-1	Test Case ID	Login-1B				
Test Case Description	Login – Negative test case	Test Priority	High				
Pre-Requisite	NA	Post-Requisite	1- Students can’t access the system. 2- The student is directed to the login page.				
Designed-by	Fatih YELBOĞA	Executed-by	-				
Design date	20/04/2023	Execution date	-				
Test Execution Steps:							
S.No	Action	Inputs	Expected Output	Actual Output	Test Env.	Test Result	Test Comments
1	Launch application	https://election.iyte.edu.tr/login/	Log in page of the election website	-	FIREFOX 85.0 (64-BIT)	-	-

2	Enter invalid Email & any Password and hit login button	Email id: invalid@xyz.com Password: *****	The email address that you've entered doesn't match any account. Please enter your valid email address.	-	FIREFOX 85.0 (64-BIT)	-	-
3	Enter valid Email & incorrect Password and hit login button	Email id: valid@xyz.com Password: *****	The password that you've entered is incorrect. Please try again.	-	FIREFOX 85.0 (64-BIT)	-	-

2. Logout

Test Scenario ID		Log out		Test Case ID		Log out-1A	
Test Case Description		Log out from the system – Positive test case		Test Priority		High	
Pre-Requisite		User should be logged into the system		Post-Requisite		1- Login page is returned	
Designed-by		Fatih YELBOĞA		Executed-by		-	
Design date		06/05/2023		Execution date		-	
Test Execution Steps:							
S.No	Action	Inputs	Expected Output	Actual Output	Test Env.	Test Result	Test Comments
1	Clicks the “Profile” button	-	User profile page opens	-	FIREFOX 85.0 (64-BIT)	-	-
2	Clicks the “Log out” button	-	User exits the system and Login interface is returned	-	FIREFOX 85.0 (64-BIT)	-	-

3. View Announcements

Test Scenario ID	View Announcements	Test Case ID	View Announcements -1A				
Test Case Description	Student views announcements that are received for himself/herself	Test Priority	High				
Pre-Requisite	1-Logged in 2-There are any announcements which waiting for the Student	Post-Requisite	The announcements are viewed.				
Designed-by	Osman Altunay	Executed-by	-				
Design date	25/04/2023	Execution date	-				
Test Execution Steps:							
S.No	Action	Inputs	Expected Output	Actual Output	Test Env.	Test Result	Test Comments
1	Click the “Home Page” button	-	“Home page” webpage opens and All of the announcements are listed.	-	FIREFOX 85.0 (64-BIT)	-	-

WORK BREAKDOWN BY EACH GROUP MEMBER:

Documentation → Halil İbrahim Buğday

Implementation of login page → Enes Demirel

Implementation of logout page → Berkan Gönülsever

Implementation of view announcement page → Merve Nur Ozan

Implementation of profile page → Gökay Gülsoy

Implementation of main page → Fatih Yelboğa, Osman Altunay

Implementation of Database → Fatih Yelboğa, Osman Altunay

Implementation of endpoints → Fatih Yelboğa, Osman Altunay

The Architecture of the Implementation → Fatih Yelboğa, Osman Altunay

