



İhsan Doğramacı Bilkent University

Department of Computer Engineering

CS319 Object Oriented Software Engineering

ProCheck

Final Report

Group 1E

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1. Introduction

In our application ProCheck, we managed to implement the Login, Sign Up, and Group Formation functionalities. Although the back-end was working properly and all the front-end files were implemented, we couldn't connect the remaining functionalities to the Front-end from Back-end. After noticing that it will not be finished by the deadline we changed our design and implemented it using GUI to make a desktop application. we have finished the functionality requirements in java and connected them with the database, our design of front-end and the UI changed due to switching from Web application to Desktop.

2. Lessons Learnt

Throughout the implementation, we have used the tools that we have never used before. This lack of experience became challenging especially during the implementation stage. These tools were **MongoDB**, **Spring Boot**, and **ThymeLeaf**. After a long learning stage, we had to adapt our class diagram and implementation accordingly and changed our design. Since MongoDB does not accept nested object attributes that are in each other since this will create an infinite loop within objects while storing the objects in the database, we have adapted our implementation and changed some attributes in several classes. We arranged so little time for making the connection between our Front-end and back-end and learnt that we shouldn't underestimate the Front-end and the connections between them. We switched our project from being a **web based application** to **Desktop** (using **GUI**) and redesigned it in a very short time. The reason for that is, we noticed that we will not be able to connect the back-end and front end during the allocated time. Fortunately, We managed to finish it in a very short time which was


challenging for us. We noticed that estimation and time allocation for each stage of the project is a crucial stage which should be planned diligently and applied during each stage. We would use tools such as JIRA in our future projects in order to prevent such a thing from happening.


3. User's Guide

Website



Login

Email

Password

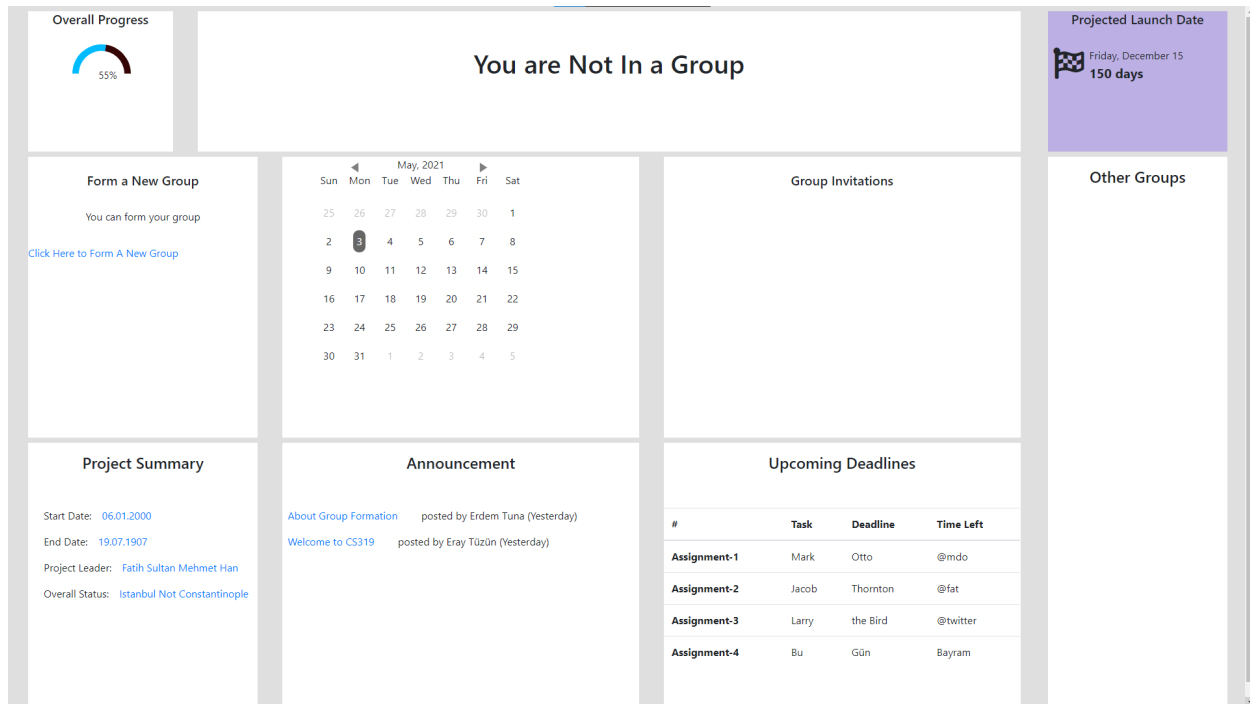
Login

Don't have an account?

Register

About Us
Contact

Users can login and register using this screen.

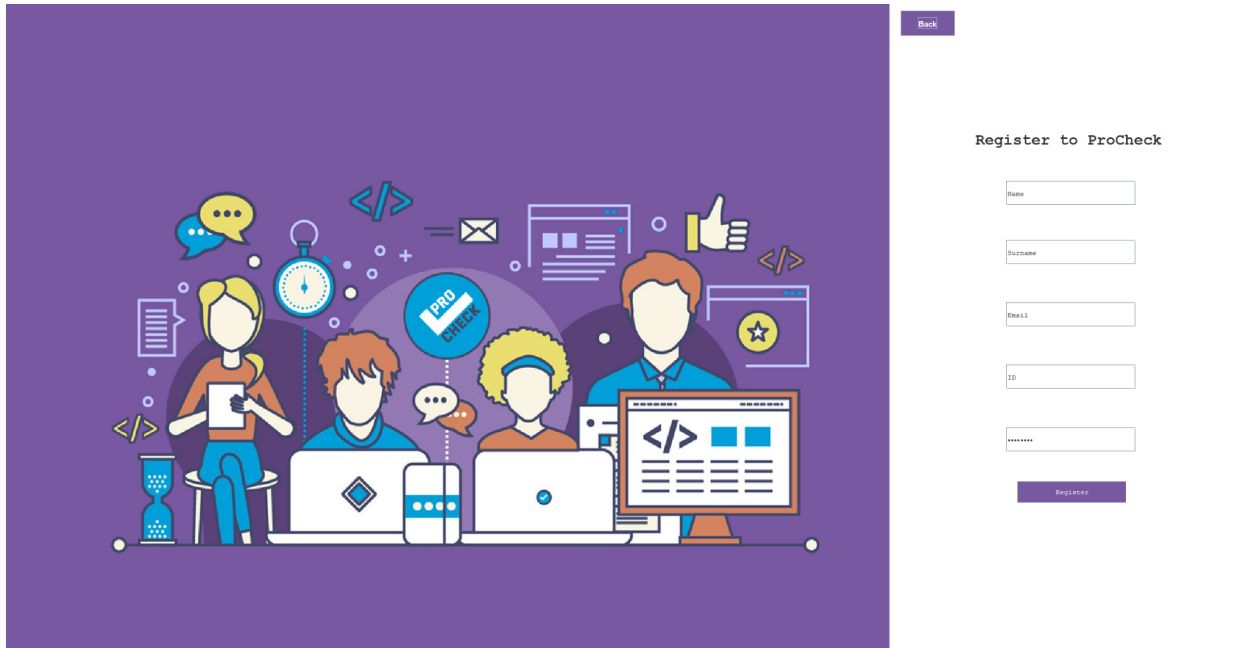


Although there are many functionalities in this dashboard screen, users can only see the correct calendar and form their own group using the dashboard.

Desktop



Users can login using the login screen.



Back

Register to ProCheck

Name

Surname

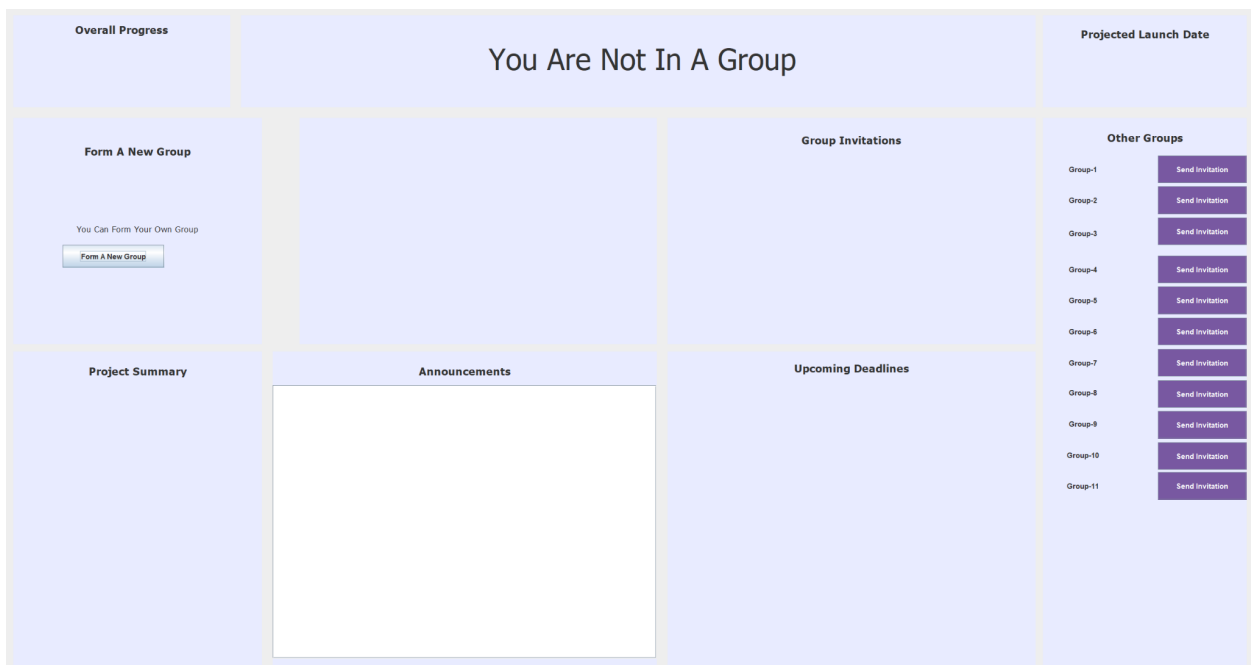
Email

ID

.....

Register

Users can register to the system using this screen.



Overall Progress

You Are Not In A Group

Projected Launch Date

Form A New Group

You Can Form Your Own Group

Form A New Group

Group Invitations

Other Groups

Group-1	Send Invitation
Group-2	Send Invitation
Group-3	Send Invitation
Group-4	Send Invitation
Group-5	Send Invitation
Group-6	Send Invitation
Group-7	Send Invitation
Group-8	Send Invitation
Group-9	Send Invitation
Group-10	Send Invitation
Group-11	Send Invitation

Project Summary

Announcements

Upcoming Deadlines

Students with no groups can create their own group, or send an invitation to already existing groups.

Overall Progress

Assignment Process

Projected Launch Date

Group Members

jLabel24

Review Peer

jLabel24

Review Peer

jLabel24

Review Peer

jLabel24

Review Peer

jLabel24

Review Peer

Requests

Student's Request Can Be Seen From Here ->

View Request

View Reviews

View Artifact Review

View Feedbacks

Artifact Review

Review Random Artifact

URL: Press "Review Random Artifact" Button First

Write Your Feedback:

☐ First Artifact Review State
 ☐ Second Artifact Review State

Submit Review

Project Summary

Announcements

Upcoming Deadlines

README Document

Make Submission

Analysis Report Iteration 1

Make Submission

Design Report Iteration 1

Make Submission

Analysis Report Iteration 2

Make Submission

Design Report Iteration 2

Make Submission

Submission Link

Students can use this dashboard to do several functions. View their group members, view the requests sent to the group, get a random artifact and submit a review to it, view their feedback and reviews to artifacts from other groups, make submission to the assignments using the text frame to paste the link and submission button to submit it, and view the announcements to whole class.

Overall Progress

CS 319

Projected Launch Date

60.0

10.01.2021

56 Days Remaining

Manage Project

Generate Random Gr...

Add Announcement

Announce To A Group

Announcements

Announcement 1

View Announcement

Announcement 2

View Announcement

Announcement 3

View Announcement

Announcement 4

View Announcement

Announcement 5

View Announcement

Average Grades

Assignment 1 : 90

View Submission List

Assignment ... 60

View Submission List

Assignment 3 : 70

View Submission List

Assignment 4 : 85

View Submission List

Assignment 5 : 65

View Submission List

Assignment

Create New Assignment

Start Date

Day

Month

Year

End Date

Day

Month

Year

Artifact Review Deadline

Day

Month

Year

Assignment Title

Assignment Weight

Create Assignments

Project Summary

Start Date :

01.10.2021

End Date :

05.01.2022

Project Leader :

Eray Tüzün

Submissions

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Group 5's Submission For Assignment 4

View

Give Feedback

Grade

View Artifact Reviews

Current Assignments

Assignment 1

Deadline: 12/04/2020

Assignment 2

Deadline: 13/04/2020

Assignment 3

Deadline: 14/04/2020

Assignment 4

Deadline: 15/04/2020

Assignment 5

Deadline: 16/04/2020

Instructors can use this dashboard to do the following functionalities: view groups' submissions and give feedback to them, grade them, and see the artifact reviews done to them by other groups. Instructors can see the deadlines of the assignments, and edit those assignment properties. Instructors can also view the average grades of the assignments and also see the whole submissions done to these assignments.

4. Build Instructions

Desktop

4.1. Minimum System Requirements

- Dependencies: **JDK 16**
- Supported OS: **Windows, MacOS.**

4.2. Build gradle

- We used **IntelliJ** as our **IDE**, you can download it from:
<https://www.jetbrains.com/idea/download>
- If no **JDK 16** is available, download a **JDK 16** distribution and unpack.
- Open the source code from an IDE as “**import project**”.
- Build and run the project.

Website

4.3. Build

- Have **IntelliJ** installed in your computer:
<https://www.jetbrains.com/idea/download>
- Open the source code in **IntelliJ** and build it.
- Run the code
- The server must be running on <http://localhost:8080/loginPage>
- You can either sign in using an email and password which exists in the database or register a new account into the system.
- The **instructor** and **TA's** will have a predefined and hard coded account.

5. Work Allocation

Gökhan Taş

- **Analysis Report:** Use case diagram, state diagram, application domain class diagram.
- **Design Report:** Solution domain class diagram.
- **Implementation:** Web application HTML pages, web application CSS files, desktop application front end and back end connections, JavaScript functions, database implementation.

Lara Fenercioğlu

- **Analysis Report:** Sequence diagrams, application domain class diagram, state diagram.
- **Design Report:** Subsystem decomposition diagram, solution domain class diagram.
- **Implementation:** Back end Java algorithms, desktop and web application front end and back end connections, database implementation.

Kimya Ghasemlou

- **Analysis Report:** Sequence diagrams, application domain class, state diagram.
- **Design Report:** Subsystem decomposition diagram, solution domain class diagram.
- **Implementation:** Java classes, function algorithms.

Sebahattin Utku Sezer

- **Analysis Report:** Use case diagram, state diagram, application domain class diagram, activity diagram.
- **Design Report:** Solution domain class diagram.
- **Implementation:** Web application HTML pages, desktop application user interface designs, back end Java algorithms, back end Java classes.
- **Others:** Trailer video edit.

Bedirhan Sakinoğlu

- **Analysis Report:** Use case diagram, state diagram, application domain class diagram.
- **Design Report:** Solution domain class diagram.
- **Implementation:** Web application html pages, desktop application dashboards, algorithms, Java Classes, GUI Functionalities.
- **Others:** User Interface Designs.