ÇANKAYA UNIVERSITY • CENG 382 WEB DEVELOPMENT

2022 – 2023 Spring

# FINAL PROJECT REPORT

#### **Project Name**: HealthTrack Web Application

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1. Project Information and Objectives
   1. Project Scope:

The project's objective is to create a web-based platform that lets users track their progress and participate in fitness challenges. Users will be able to sign up for, design, and take part in challenges as well as commenting and rating them using this web-based application, which will encourage healthy competition and physical exercise. Users will be able to participate in challenges covering a variety of fitness metrics, create and monitor fitness goals, and monitor their progress.

* 1. Users:

Individuals who are looking for responsibility and incentive in their fitness adventures will be the main beneficiaries of the new system. This includes athletes, fitness enthusiasts, and those trying to live healthier lives. Fitness instructors and trainers may also use the system to set up challenges for their customers, creating a friendly yet competitive atmosphere. The system will also have an impact on the administrators that monitor user accounts, difficulties, and platform functionality.

* 1. Objectives:
* Enable user registration and authentication to access the platform securely.
* Facilitate browsing, joining, and creation of fitness challenges with customizable parameters such as duration, metrics, and participant limits.
* Provide a user-friendly interface for participants to track their progress, view leaderboards, and monitor their standings within challenges.
* Ensure data security by implementing measures to protect user information and maintain the confidentiality of passwords.
* Enhance user experience through clear instructions, intuitive navigation, and aesthetically pleasing design.
* Optimize performance to deliver responsive, fast-loading web pages accessible 24/7 across various devices and web browsers.

1. Project Implementation
   1. Database Diagram:

A diagram of a computer

Description automatically generated*Figure 1. Database diagram*

* 1. Context Diagram:

A diagram of a web application

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*Figure 2. Context diagram*

* 1. Workflow Diagrams

A diagram of a computer program

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*Figure 3.1: User Login/Register Workflow*

A diagram of a challenge

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*Figure 3.2: Challenge Operations Workflow*

A diagram of a database

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*Figure 3.3: Challenge Comments Workflow*

A diagram of a challenge

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*Figure 3.4: Joined Challenges Workflow*

1. Project Results
2. Login page: The following is the login page for the application.

A screenshot of a log in

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*Figure 1: Login Page Interface*

1. Register page: The following is the register page for new users using the application.

A screenshot of a login form

Description automatically generated

*Figure 2: Register Page Interface*

1. Forgot Password page: The following is the forgot password page for the users who forgot their passwords. They can get a “Reset Password” mail from here.

A screenshot of a computer screen

Description automatically generated

*Figure 3.1: Forgot Password Interface*

A screenshot of a login page

Description automatically generated

*Figure 3.2: Forgot Password Confirmation Interface*

1. Resend Email Confirmation page: The following is the resend email confirmation for users who has not got the confirmation mail yet.

A screenshot of a computer screen

Description automatically generated

*Figure 4: Resend Email Confirmation Interface*

1. Home page: The following is the home page of the application that shows various options the application provides.

A screenshot of a website

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*Figure 5.1: Home Page Interface*

A person lifting weights on a gym floor

Description automatically generated

*Figure 5.2: Home Page Interface*

1. About page: The following is the about page that describes the HealthTrack and its purpose.

A screenshot of a website

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*Figure 6: About Page Interface*

1. Contact Us page: The following is the Contact Us page that the user can use to send messages to the customer service.

*A screenshot of a computer

Description automatically generated*

*Figure 7: Contact Us Page Interface*

1. FAQs page: The following is the Frequently Asked Questions Page that displays a selection of questions and answers.

A screenshot of a computer

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*Figure 8: Frequently Asked Questions Page Interface*

1. Account page: The following is the account page that shows users data and allows the user to interact with those settings. (Profile Picture Update e.g.)

A screenshot of a profile

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*Figure 9.1: Account Page – Profile Interface*

A screenshot of a computer

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*Figure 9.2: Account Page – Email Interface*

**A screenshot of a login page

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*Figure 9.3: Account Page – Password Interface*

**A screenshot of a computer

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*Figure 9.4: Account Page – Two-factor Auth Interface*

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*Figure 9.5: Account Page – Personal Data Interface*

1. Add a Fitness Challenge page: The following is the add a Fitness Challenge page, users can add their custom fitness challenges to the database from here.

A screenshot of a computer

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*Figure 10: Add a Fitness Challenge Page Interface*

1. Active Challenges page: The following is the active challenges page that shows active challenges in the database. User can join, view details, give them rating and comments from this page. User can use filters to view specific challenges. Also, user can navigate to the comments of the specific challenge.

A screenshot of a web page

Description automatically generated**A screenshot of a computer

Description automatically generated**

*Figure 11.1 and Figure 11.2: Add a Fitness Challenge Page Interface*

1. Challenge Comment page: The following is the comment and rating page of a specific challenge. Also displays the average rating.

A screenshot of a web page

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*Figure 12: Challenge Comment Page Interface*

1. Challenge Comment page: The following is the Joined Challenges page that shows the users joined challenges. User can mark as completed, mark as favorite and filter according to that or leave a particular challenge.

A screenshot of a computer

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**A screenshot of a fitness program

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*Figure 12.1 and Figure 12.2: Joined Challenges Page Interface*

1. Leader Board page: The following is the leaderboard page that shows the ranking of the users who completed the most joined challenges.

**A screenshot of a web page

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*Figure 13: Leader Board Page Interface*