PRINCE2™- Project Product Description

Project Name:	Andazeh Negasht Corporate Website		
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Revision History

Date of next revision:

Revision Date	Previous Revision Date	Summary of Changes	Changes Marked

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Approvals

This document requires the following approvals. A signed copy should be placed in the project files.

Name	Signature	Title	Date of Issue	Version

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Overview

Purpose

The purpose of this website is to introduce the activities of Andazeh Negasht Company to industrial and production professionals, laboratory service providers, and other stakeholders in the field of metrology. Andazeh Negasht is recognized as one of the specialized leaders in metrology within the country. With over 26 years of experience in providing specialized metrology training to a wide range of stakeholders, the company has played a significant role in enhancing knowledge and achieving substantial financial and economic savings for domestic organizations.

In addition to training, the company has successfully delivered calibration services in the areas of mass, length and angle, and liquid volume to its applicants and customers. Through the establishment of the ISO/IEC 17025 standard for calibration activities, the company has ensured that the devices it calibrates have a positive impact on the operational processes of its clients.

Moreover, the company’s specialists have successfully implemented the ISO/IEC 17025 standard in the testing and calibration laboratories of several applicants. These consultations are designed to enable the laboratories to implement their systems in the shortest possible time and with maximum efficiency through agile documentation practices.

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Software specification:

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Software Description....0
Application Type....0
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Software Requirement:
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Requirement Specification....0

System modelling:
Context Model....0
Interaction Model....0
Structural Model....0
Behavioral Model....0
Model Driven Engineering....0

Advice

The Project Product Description is derived from the project mandate, discussions with the Senior User and Executive – possibly via scoping workshops and the request for proposal (if in a commercial customer/supplier environment).

A Product Description for the project product can take a number of formats, including: Document, presentation slides or mind map; or Entry in a project management tool.

The following quality criteria should be observed:

- The purpose is clear
- The composition defines the complete scope of the project
- The acceptance criteria form the complete list against which the project will be assessed
- The acceptance criteria address the requirements of all the key

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stakeholders (e.g. operations and maintenance)

- The Project Product Description defines how the users and the operational and maintenance organizations will assess the acceptability of the finished product(s):
  - All criteria are measurable
  - Each criterion is individually realistic
  - The criteria are realistic and consistent as a set. For example, high quality, early delivery and low cost may not go together
  - All criteria can be proven within the project life (e.g. the maximum throughput of a water pump), or by proxy measures that provide reasonable indicators as to whether acceptance criteria will be achieved post-project (e.g. a water pump that complies with design and manufacturing standards of reliability)
- The quality expectations have considered:
  - The characteristics of the key quality requirements (e.g. fast/slow, large/small, national/global)
  - The elements of the customer's quality management system that should be used
  - Any other standards that should be used
  - The level of customer/staff satisfaction that should be achieved if surveyed.

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Title

Andazeh Negasht Corporate Website

Purpose

The goal of the Andazeh Negasht corporate website project is to create a platform that provides access to the company's services. This platform should be simple, accessible, and user-friendly, offering users an educational calendar, showcasing the company's services and facilities, and providing insights into the scope of the company's laboratory activities.

Overall, the aim is to establish a platform that introduces the company's diverse services in an easily accessible and user-friendly manner, ultimately delivering a positive experience for interested parties and customers.

Composition

The product of this project is a system that includes an attractive yet simple, efficient, and responsive website. It provides comprehensive and specialized information, technical support for potential issues, interactive and social features, and employs advanced security protocols like TLS to ensure the security of user information and site data.

All these elements work together to deliver a secure and beneficial user experience for the company's customers.

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Derivation

The corporate website for "Andazeh Negasht" is derived from:

- Introducing the company’s services and products through categorized sections, including descriptions of measurement services, training, and laboratory scope. Users can access various site sections such as services, contact us, and about us via the main menu.
- A dedicated page for the laboratory scope, featuring an image gallery, descriptions, and details such as calibration costs.
- A "Contact Us" section that includes a survey form, contact information, and the company’s location on a map.
- Integration of visual design with usability principles, adhering to graphical user interface (GUI) design rules to ensure visual appeal and text readability.
- A responsive design that allows users to access the site seamlessly across different devices, including computers, tablets, and mobile phones.

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Feasibility Report:

The research includes examining the needs of the company’s customers, assessing the technical capabilities of the website for providing information and showcasing work samples, and evaluating the economic and marketing aspects to strengthen the company’s brand and attract new customers.

Guidelines:
Documents specifying the objectives of the website redesign, expectations for its appearance and functionality, technical requirements, and project constraints. These documents are used to guide the development and design team toward achieving the project’s goals.

Development Skills Required
The skills required for developing and implementing the system include:

- Proficiency in UI/UX design
- Web development skills
- Back-end development and design skills
- Database management and support skills
- Administrative and management skills
- xpertise in security protocols
- Mastery of Scrum and Agile principles
- System architecture design skills and familiarity with design patterns

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Customer’s Quality Expectations

(A description of the quality expected of the project’s product and the standards and processes that will need to be applied to achieve that quality. They will impact on every part of the product development, and thus on time and cost. The quality expectations are captured in discussions with the customer. Where possible, expectations should be prioritized)

Acceptance Criteria	Project Level Quality Tolerances	Acceptance Method	Acceptance Responsibilities
1. Page Load Speed	Pages should load within 3 seconds.	Performance Testing	Web Development Team
2. Responsive Design	The site should display properly across various desktops.	Performance Testing	Web Development Team
3. Updated Educational Calendar	The calendar should be updated at the start of each semester.	User Acceptance Testing - UAT	Project Manager and QA Team

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Acceptance Criteria	Project Level Quality Tolerances	Acceptance Method	Acceptance Responsibilities
4. Data and User Information Security	Ensure high-level security for user data.	Security Testing	Security team

A.

User Analysis

For analyzing system users, it is necessary to identify the requirements, features, and recognize the primary users, secondary users, professional users, and new users.

Users and Descriptions:

- Managers and owners of industries related to measurement and calibration: Need: Quick access to information about the services offered, laboratory scope, and contact with the company for consultation and collaboration. Knowledge level: Familiar with using company websites and interested in a professional and efficient user interface.
- Engineers and technical experts in various industries: Need: View services, training courses, review the company's laboratory scope, and obtain precise technical information. Knowledge level: Proficient with the internet and online tools, requiring technical and practical content.
- Small or newly established companies and general customers: Need: Find basic information about the company’s services, view certifications and examples of

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successful projects for decision-making. Knowledge level: Familiar with using the internet and user-friendly, simple websites.

- Students and researchers: Need: Access to information and articles related to metrology and calibration for research or academic projects. Knowledge level: Adequate proficiency in internet search and working with informational websites.

Usage Environment and System Interaction:

- Quiet and formal environments: such as home or office, for detailed review of information.
- Busy environments: such as universities, business meetings, or exhibitions for quick access to information.

Conditions and Features:

- **Availability**: The system must be accessible to all users, including those with special needs (e.g., the visually impaired), and support advanced accessibility features.
- **Scalability**: The site must be able to manage a large number of users and should not be affected by increased user numbers.
- **Responsive**: The system must function correctly on various devices such as mobile phones, tablets, and laptops.

User Behavior and Preferences: Some considerations for design:

- What behavior patterns do users have when searching for or obtaining services?
- What types of services or projects are they interested in?
- What communication methods do they prefer?

Personas

Maryam: Student or Researcher

- **Characteristics**: A university student looking for specialized information for research projects or papers.
- **Needs**: Easy access to articles or technical information and company projects for academic research.

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Ali: Engineer or Technical Expert

- **Characteristics**: An employee of a technical company in need of detailed information about training courses and the certification of those courses.
- **Needs**: Reviewing the training calendar and course costs for decision-making.

Sara: Small Business Owner or Startup Manager

- **Characteristics**: The manager of a small company looking for affordable and professional services for consulting projects and utilizing laboratory services in her business.
- **Needs**: Viewing the laboratory scope of work, service costs, and the possibility of receiving quick consultation.

Task analysis

. Homepage

Goal:

A brief and concise introduction of the company, reasons for its superiority, and attractive images for visual appeal.

Preconditions:

The user has opened the website of the "Andazeh Negasht" company.

Subtasks:

- Display a list of services.
- Display information such as location, phone number, fax, etc.

. Services page

Goal:

Providing Complete Information on Services, Training Courses, Laboratory Scope, and High-Quality Images

Preconditions:

The user has clicked on one of the laboratory or training course pages in the top menu.

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Subtasks:

- Display high-quality images of the laboratory scope.
- Provide detailed information on the training course calendar, cost, and dates.

. Information page

Goal:

Providing Complete Information on Services, Goals, Company History, and High-Quality Images.

Preconditions:

The user has clicked on one of the other options in the top menu.

Subtasks:

- Display high-quality images of the company's premises.
- Provide related scientific information and resumes of the company's key personnel.

. Comments and suggestions

Goal:

Providing an Interface for Customer Interaction with Company Representatives through Feedback and Suggestions.

Preconditions:

The user has filled in their first and last name, email, and feedback on the relevant page and clicks the "Submit" button.

Subtasks:

- Receive feedback from the user.
- Ensure the user feels engaged and connected with the company.

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Domain analysis

In this phase, to analyze the system's domain, we need to identify the relationships between objects and entities and define their interactions.

Important things in the domain:

- Training Courses
- Laboratory Scope
- Customers
- Registrations
- Laboratory Equipment
- Issued Certifications

User classes:

- Customers
- Managers and Entrepreneurs in the Metrology Field
- Employees in Training, Finance, and Administration
- Instructors
- Laboratory Staff
- Consultants

Physical objects:

- Laboratory Equipment
- Registration Invoices
- Certificates
- Course Materials
- Teaching Supplies

Information objects:

- **Course Information** (course name, description, prerequisites, cost, etc.)
- **Customer Information** (name, address, email, phone number, manufacturing unit, educational qualifications, etc.)
- **Registration Information** (date, number of participants, total cost, etc.)
- **Calibration Equipment Information** (certificate number, certificate date, related company, etc.)

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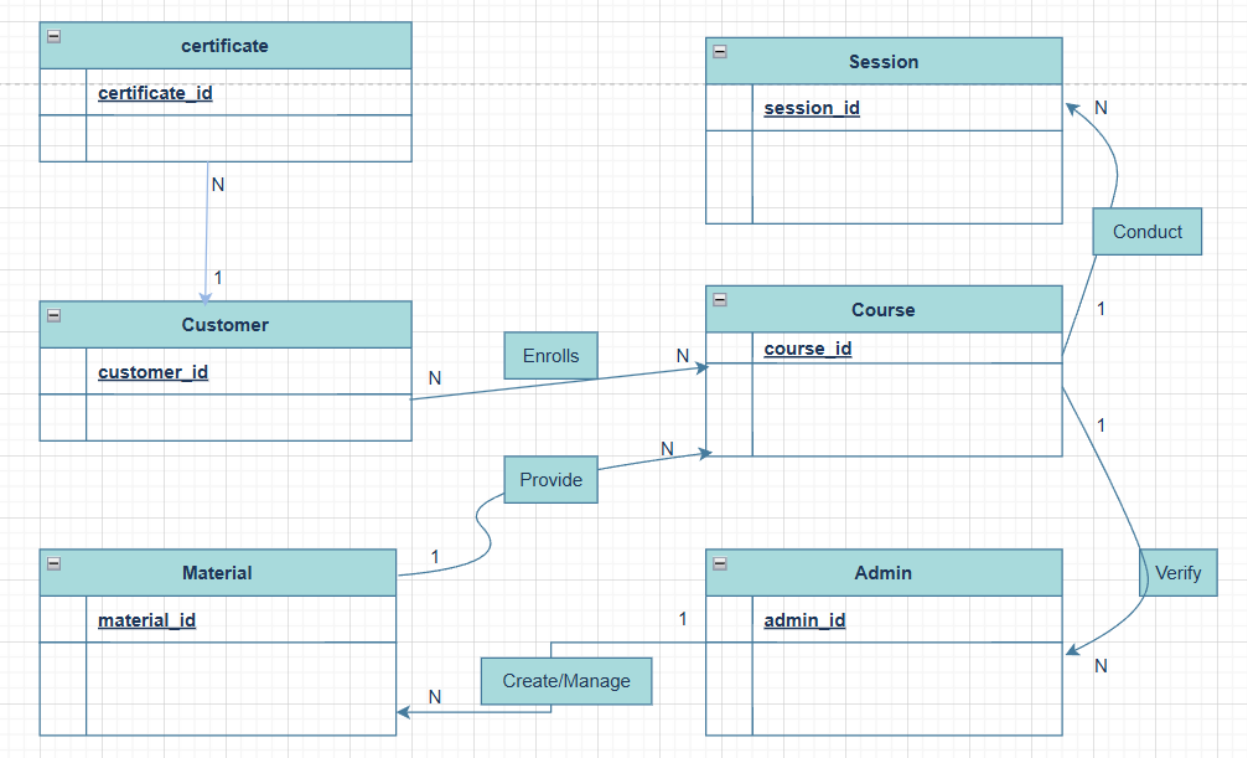
Important relations between the things:

- Course Registration by Customers
- Registration Confirmation by the Training Officer
- Preparation of Educational Materials (Course Materials, etc.)
- Conducting the Course
- Issuing Certificates

Entity Relationship Diagram (ERD)



Business Rules

View Training Calendar

- All users have the ability to view the training course calendar.
- The costs associated with the courses must be clearly indicated in the calendar.

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View Laboratory Scope

- Users can view details of laboratory services, including calibration tools and processes.
- Information related to laboratory equipment must include precise descriptions.

Data Security

- All information entered by users (such as comments or submitted feedback) must be stored in compliance with data security standards.
- User information is used solely to improve services and will not be shared without their consent.

Customer Communication

- Users can submit their questions or requests through the website forms.
- The support team is required to respond to requests within a maximum of 24 hours.

Requirement’s analysis

Functional requirements:

- Allow users to browse the list of courses.
- Enable users to view the description of each course while browsing the course list.
- Provide the list of course prices.
- Allow users to contact company representatives through a survey form.
- Allow users to view other company information, such as phone numbers and location.
- Allow users to access the resumes of the company’s key personnel.
- Allow administrators to manage and monitor customer data, such as registrations and submitted feedback.

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Non-functional requirements:

- The system must have a usable user interface that is easy to navigate.
- The system must be secure and protect user information.
- The system must load the site in under three seconds.
- The system must update its information monthly.
- The system must be accessible to everyone and easily available to users via the internet.
- The system must be highly scalable to accommodate a large number of users and registrations.

B.

project Sketches design

Wireframes: Initial designs of pages and their functionality.
Mockups: A realistic visual representation of the user interface.
In this section, the initial sketches created on paper, along with a prototype of the homepage in Figma, are provided.

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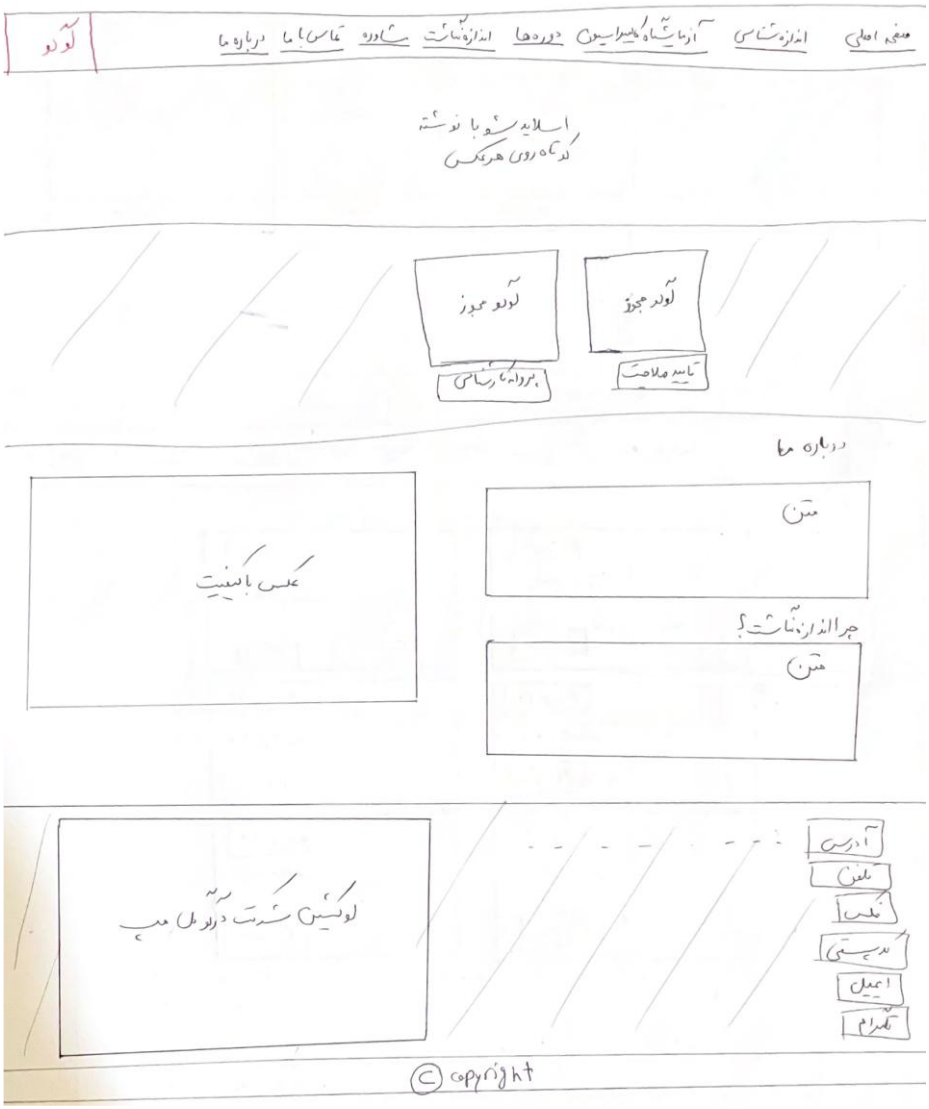
Homepage of the Website:



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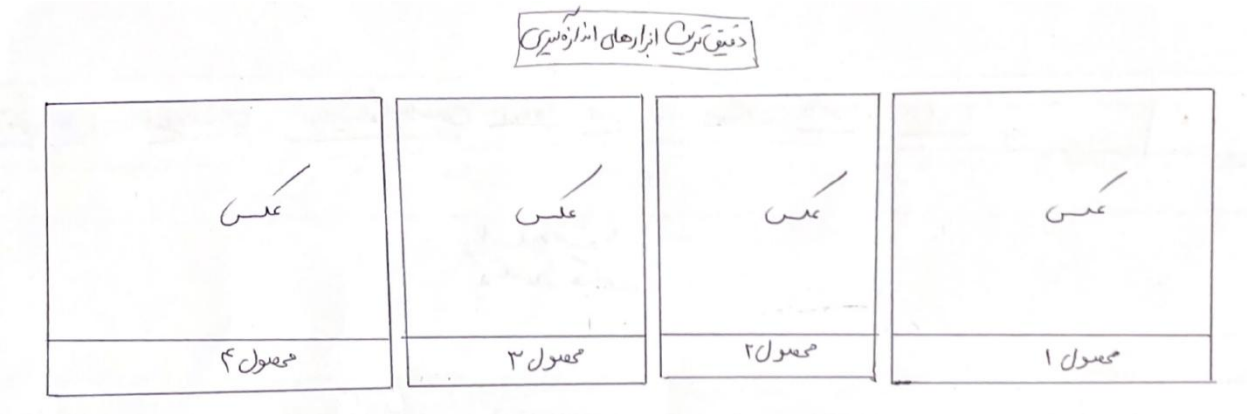
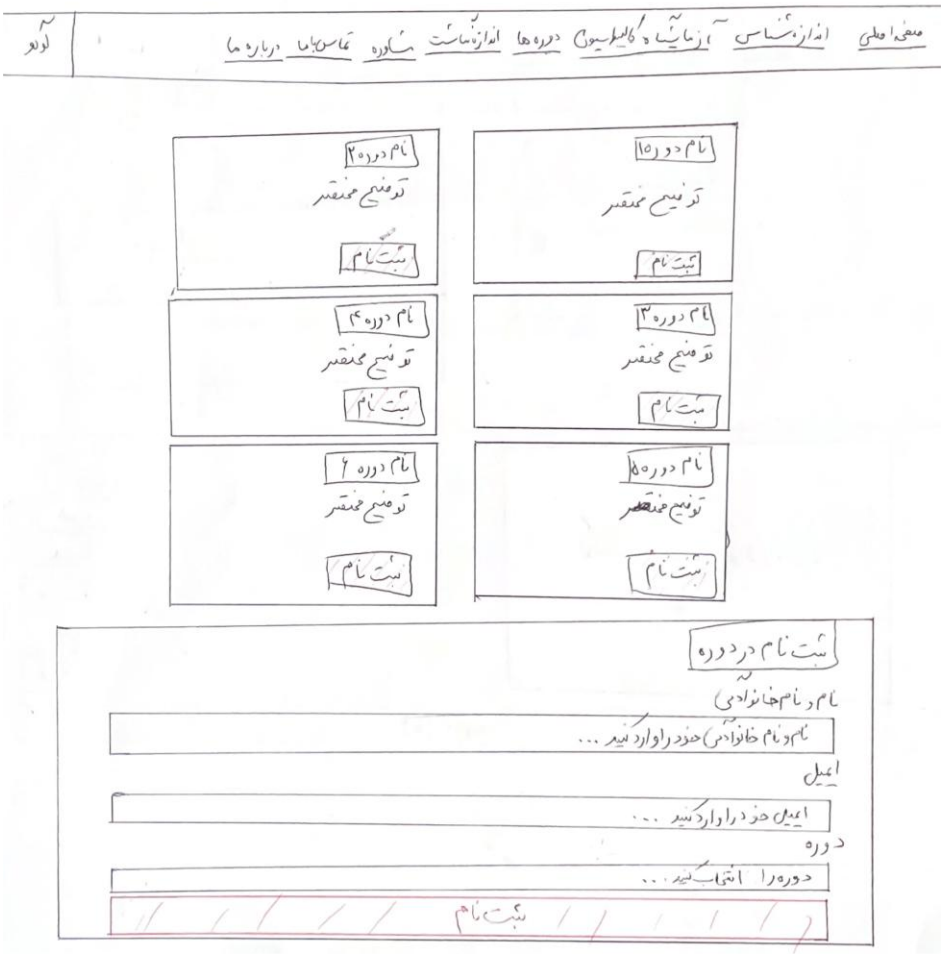
Calibration Laboratory Scope Page:



Course Registration Page:



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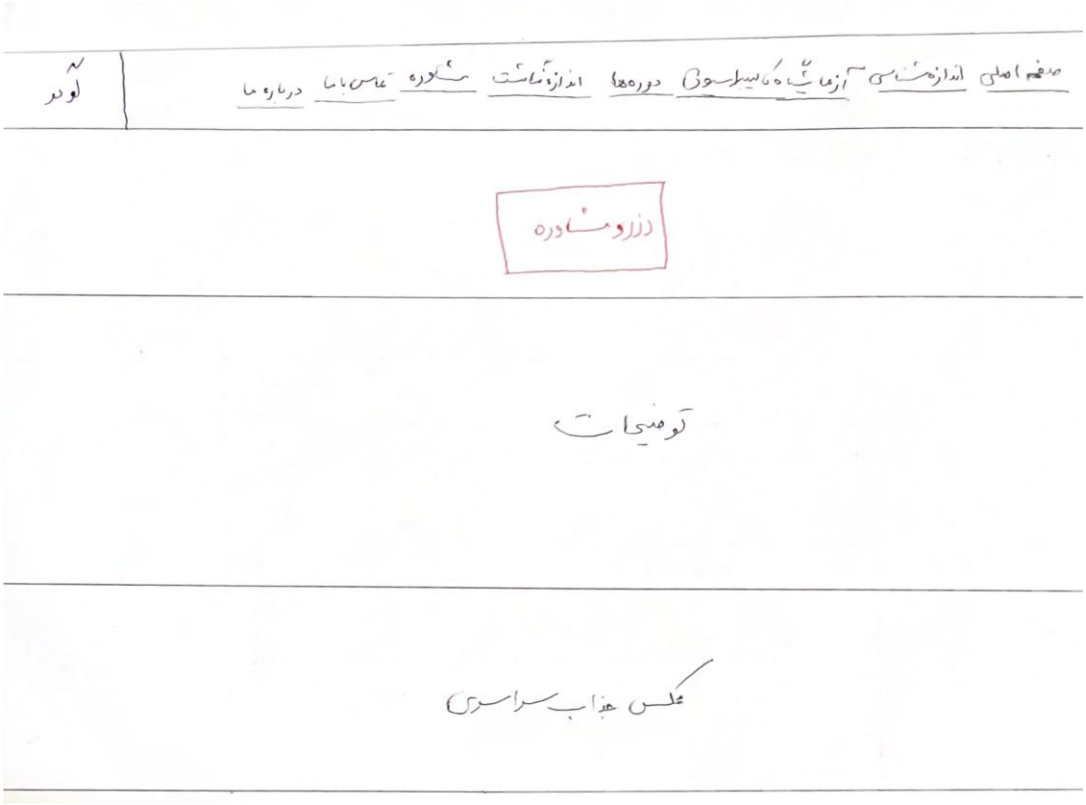
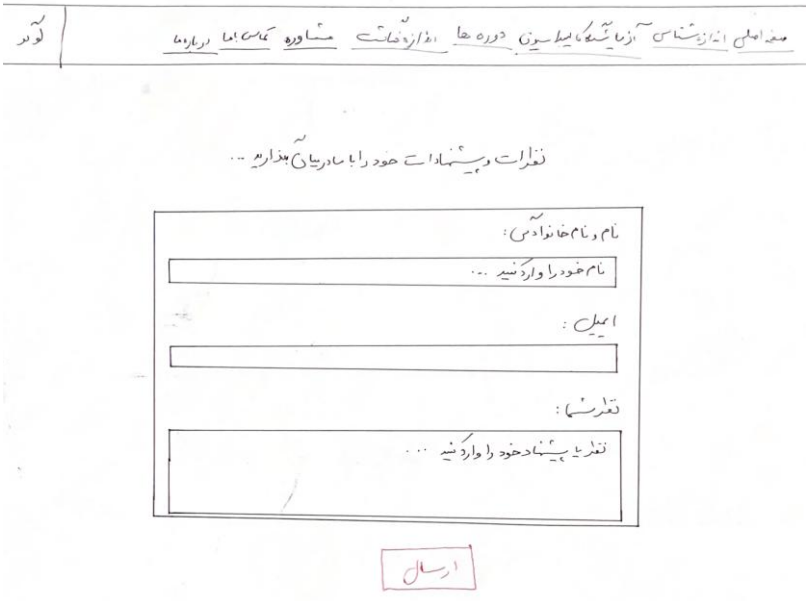
Consultation Page:



Contact Us Page:



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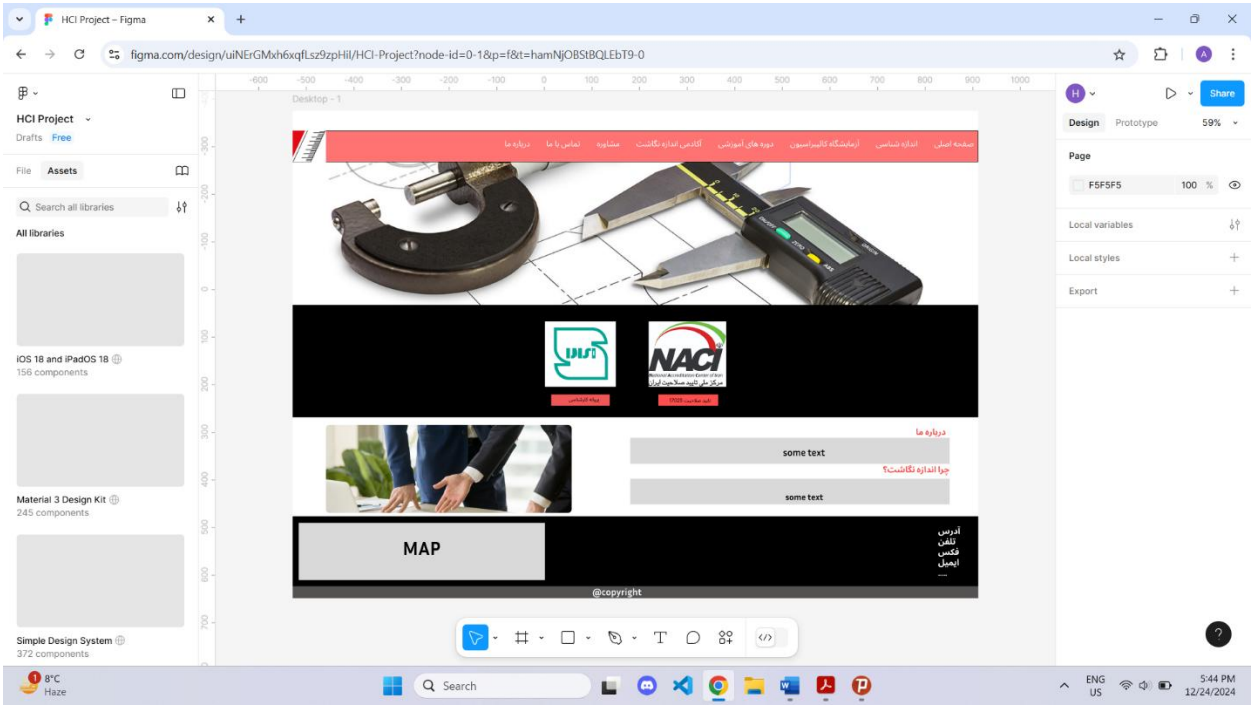
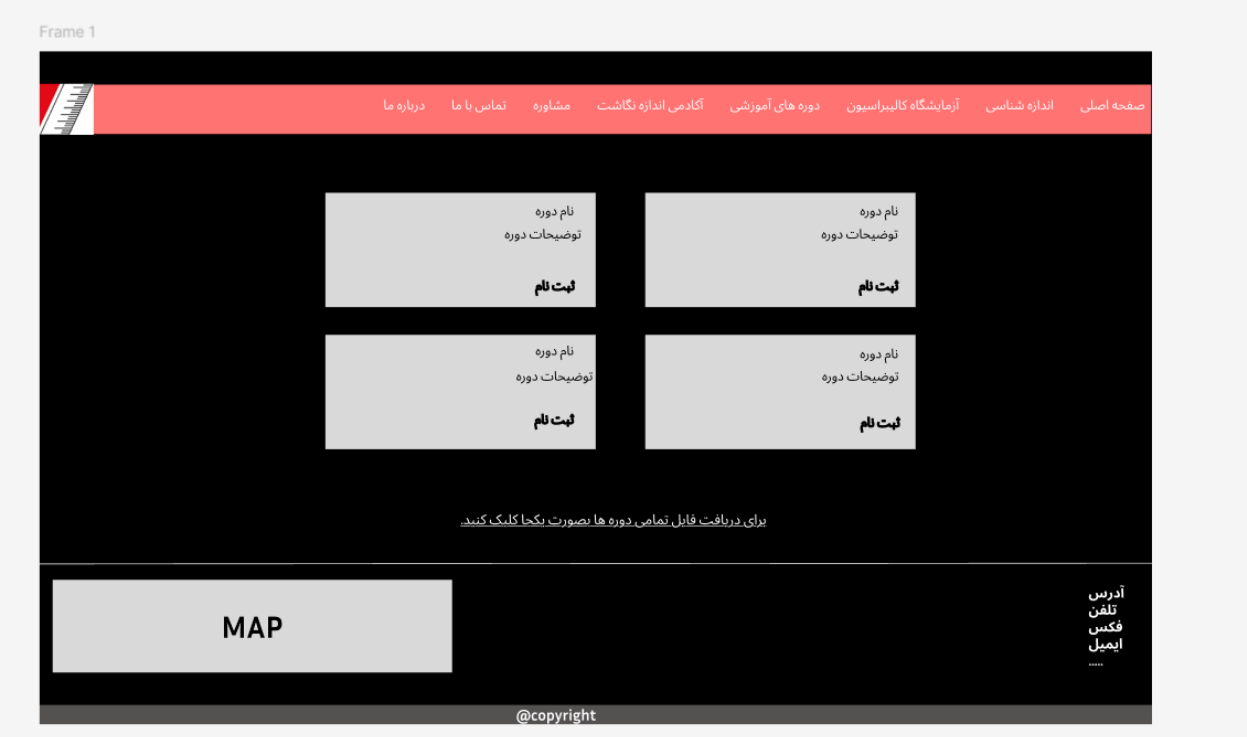
Prototype of the Homepage in Figma:



Prototype of the Training Courses Page in Figma:



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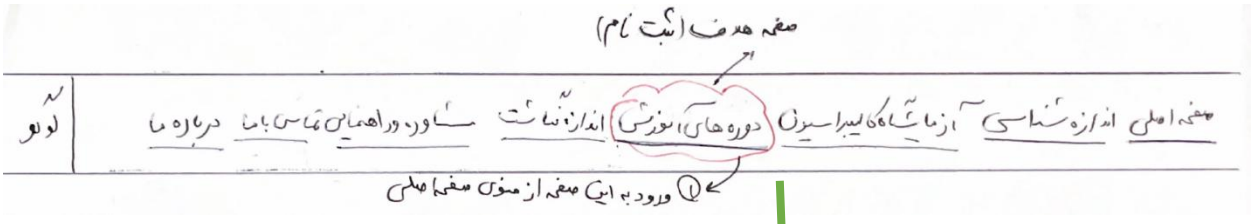
project scenarios

Scenario: Mr. Rezaei, the project manager at an engineering company, wants to register for the "Basics of Calibration of Measuring Instruments" training course.

- Mr. Rezaei visits the "Andazeh Negasht" website and clicks on the "Training Courses" button in the top menu.
- He clicks on the "Course Registration" option and is redirected to another page.
- On the new page, he reviews the course details, including the schedule, program, and cost.
- After reviewing the content, course topics, and the instructor, he decides to register for the course.
- To register, Mr. Rezaei is redirected to the registration page and enters his details.
- After completing the registration process, he proceeds to the payment gateway and enters his payment information.
- Once the payment is completed, he receives a confirmation email with the course details.

story boards



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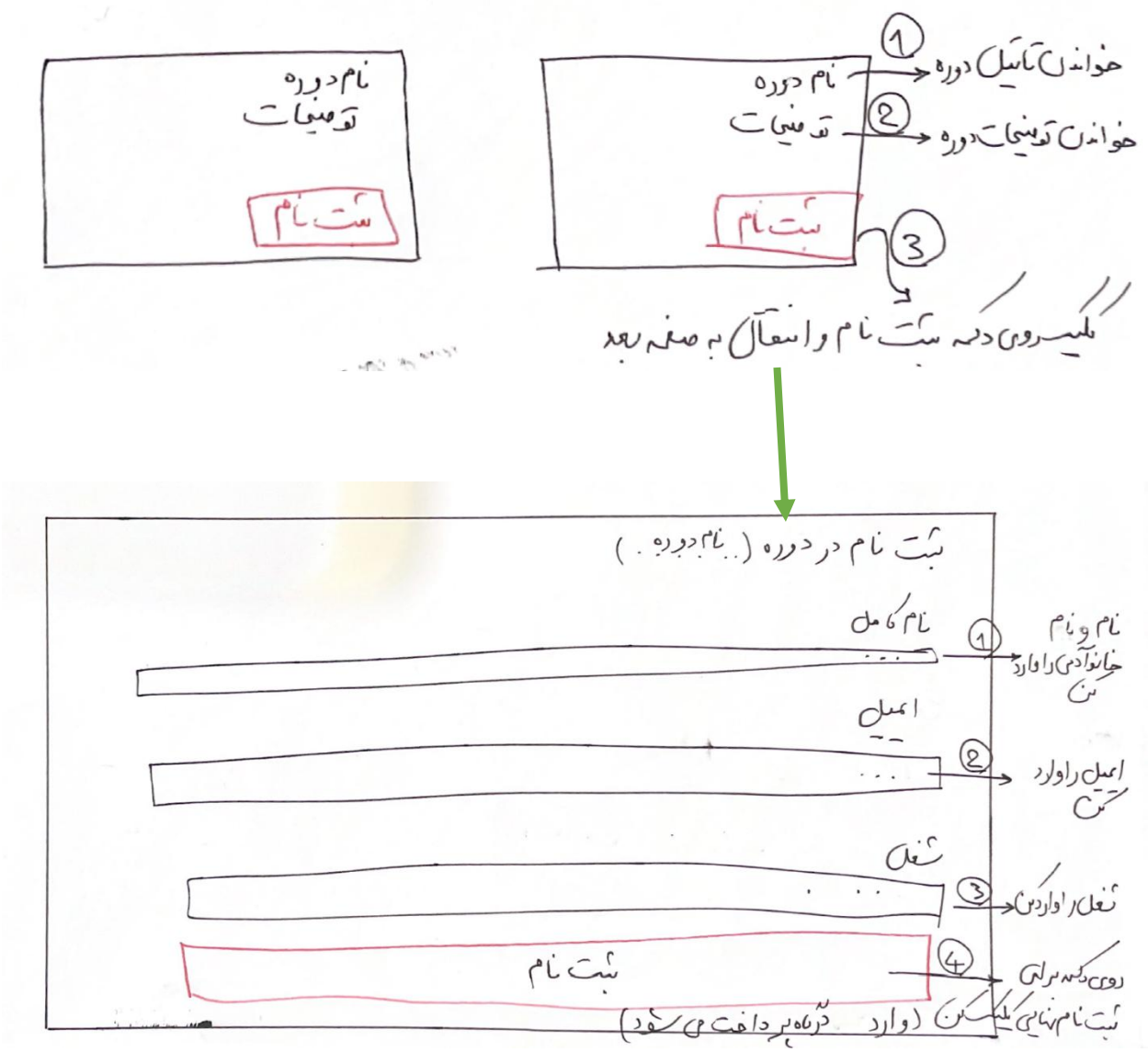

View Main Page:

- The user visits the "Andazeh Negasht" website and navigates to the "Training Courses" section from the top menu of the homepage.

View Training Course List:

- The user views the list of various training courses. This list includes the names of the courses, descriptions, etc.

Select Course:

- The user selects the course of interest based on the descriptions and project needs.

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View Course Details:

- The user carefully reviews the detailed information about the specific training course.

Register:

- The user decides to register for the course.
- The user clicks on the "Register" button and is redirected to a new page.

Enter User Information:

- The user creates an account by entering personal, professional, and other required information.

Payment:

- The user enters their payment information and clicks on the "Pay" button to complete the process.

Confirm Registration:

- After reviewing the order details, the user clicks the "Register and Pay" button to complete the registration.

Receive Registration Confirmation:

- The user receives a confirmation email and views the details related to the training course.

C.

The design patterns that are used in your project

Wizard

- In the payment process, it has been divided into several consecutive steps, which are displayed in order. Users are guided step-by-step through entering their information, being redirected to the payment gateway, and then confirming their registration. This ensures minimal errors.

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Sticky Navigation Bar

- Keeping the navigation bar at the top of the page even while scrolling makes it easier to access the menus and main sections of the website.

Footer Navigation

- Providing important links such as contact information, address on the map, and social media in the footer for better accessibility.

Forms

- For receiving information from users (such as contact, registration, etc.).
  Features:
  - Validation: Checking inputs and confirming submission.
  - Inline Errors: Displaying error messages next to the fields.

D.

Describe the programming approaches of your chosen GUI with what kind of language is developed (development)

- **Front-end:** HTML ،CSS ،JavaScript
- **Back-end:** Java ،Oracle SQL

Front-end:
The front-end of the "Andazeh Negasht" website is responsible for the user interface and all user interactions. I have used HTML to create the structure of web pages, CSS for designing the pages, and JavaScript to add dynamic functionality to the web pages.

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Back-end:
The back-end of my website is responsible for managing data and processing user requests. I have used Java for processing user inputs and interacting with the database, and Oracle SQL for storing course information, customer data, and registration details.

Programming approaches

Client-Server Architecture :
The front-end (client) separates from the back-end (server). The client manages the presentation layer, while the server handles data storage, business logic, and API endpoints.

Responsive Design:
It ensures that the user interface provides an optimized viewing experience across different screen sizes and devices, including desktops, tablets, and mobile phones.

User-Centered Design (UCD):
- Focus on the needs, goals, and behaviors of users.
- Design interfaces that are easy for users to use.

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E.

Your chosen GUI design approach (development)

User-Centered Design (UCD):

- Focus on the needs, goals, and behaviors of users.
- Design interfaces that are easy for users to use.

Responsive Design:

- Use of responsive design techniques to ensure the user interface adapts to various screen sizes (mobile, tablet, desktop).
- Additionally, different design elements have been used to make the website visually appealing and engaging. I used large, high-quality images both as background for the page (to enhance visual appeal) and in various sections of the site to provide a more enjoyable user experience.

F.

The project codes :

For avoiding redundancy I did not add codes in documentation file and you can find them in the repository.

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Output of main pages:

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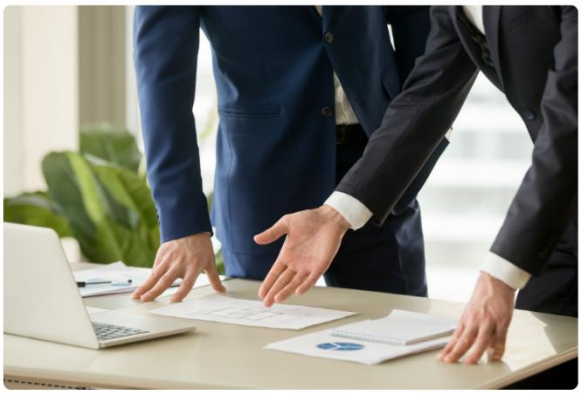
درباره ما

شرکت اندازه نگاشت طی بیست و پنج سال به طور پیوسته به منظور پشتیبانی مشتریان خود از طریق آموزش های مختلف اندازه شناسی و خدمات کالیبراسیون همیشه پیشگام بوده است. اندازه گیری، کالیبراسیون، عدم قطعیت اندازه گیری، کنترل کیفیت نتایج در سطوح گوناگون، صحه گذاری روش های اندازه گیری نو و هم چنین راهنمایی و مشاوره درباره استانداردهای مرتبط مانند ISO/IEC 17025 را برای مشتریان و متقاضیان از مجموعه خدمات این شرکت بوده است.



چرا اندازه نگاشت ؟

اگر کالیبراسیون دستگاه های اندازه گیری، قابل تحلیل، پشتیبانی کننده کیفیت محصول، ایمنی کار در سازمان و مصرف انرژی بهینه باشد، اگر آموزش های تخصصی و پیشرفته اندازه گیری و کالیبراسیون به کار گرفته شده توسط کاربران به طور مستقیم در کاهش هزینه ها و افزایش کیفیت و بهره وری سازمانی دخالت کند، شرکت اندازه نگاشت انتخابی مناسب برای کارشناسان سازمان های صنعتی، تولیدی و علمی کشور خواهد بود.

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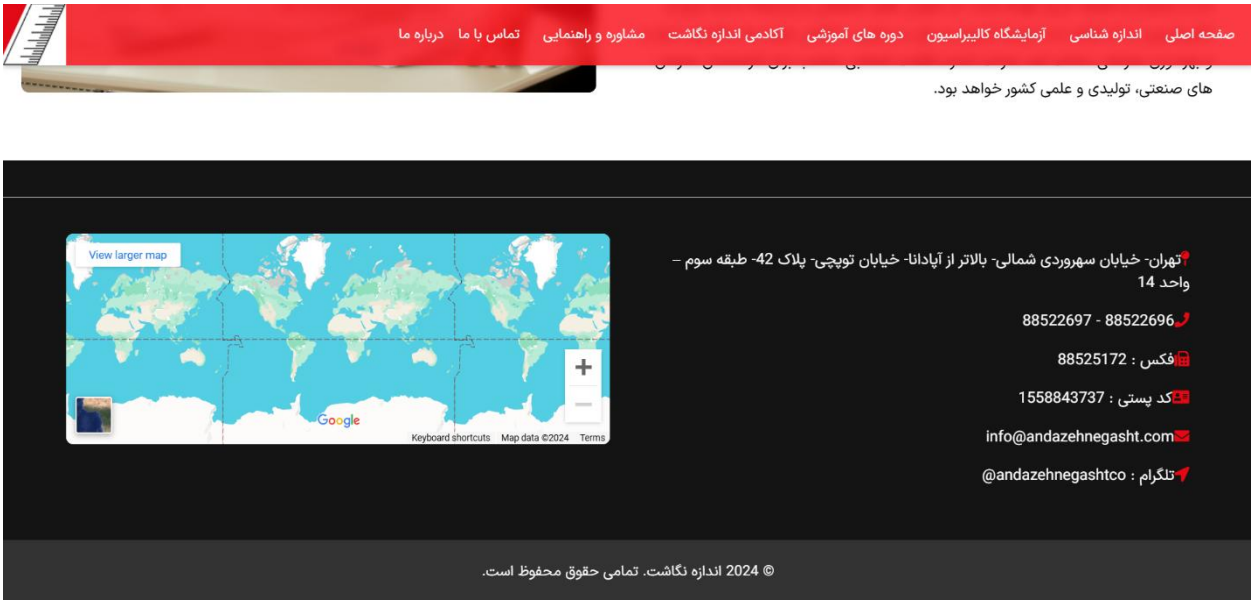

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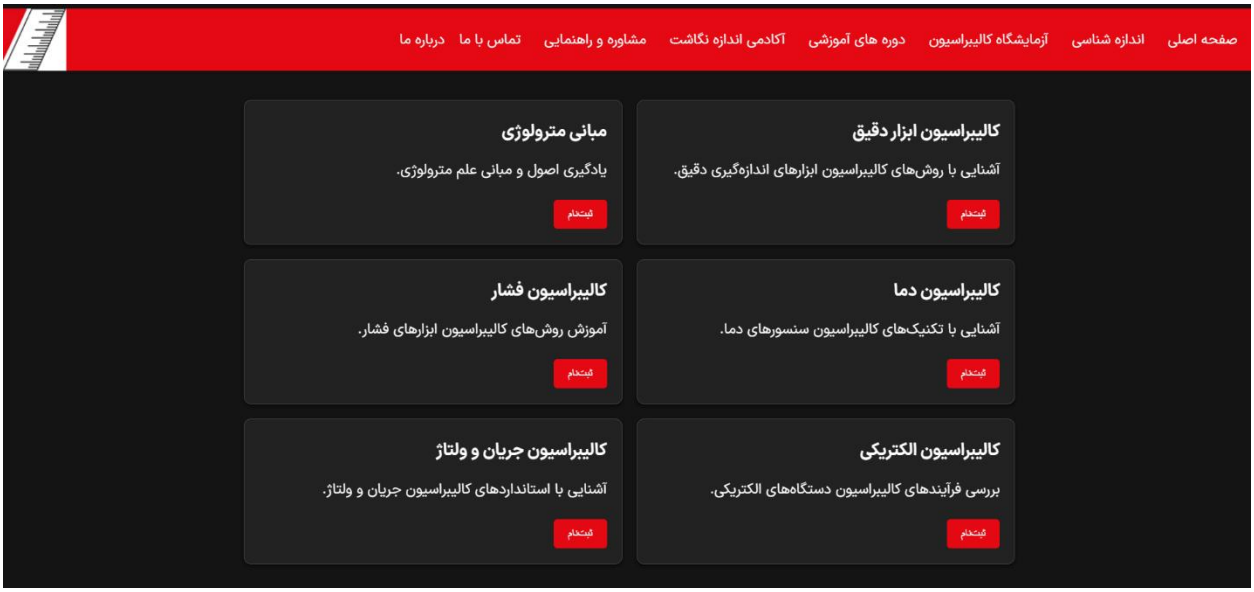

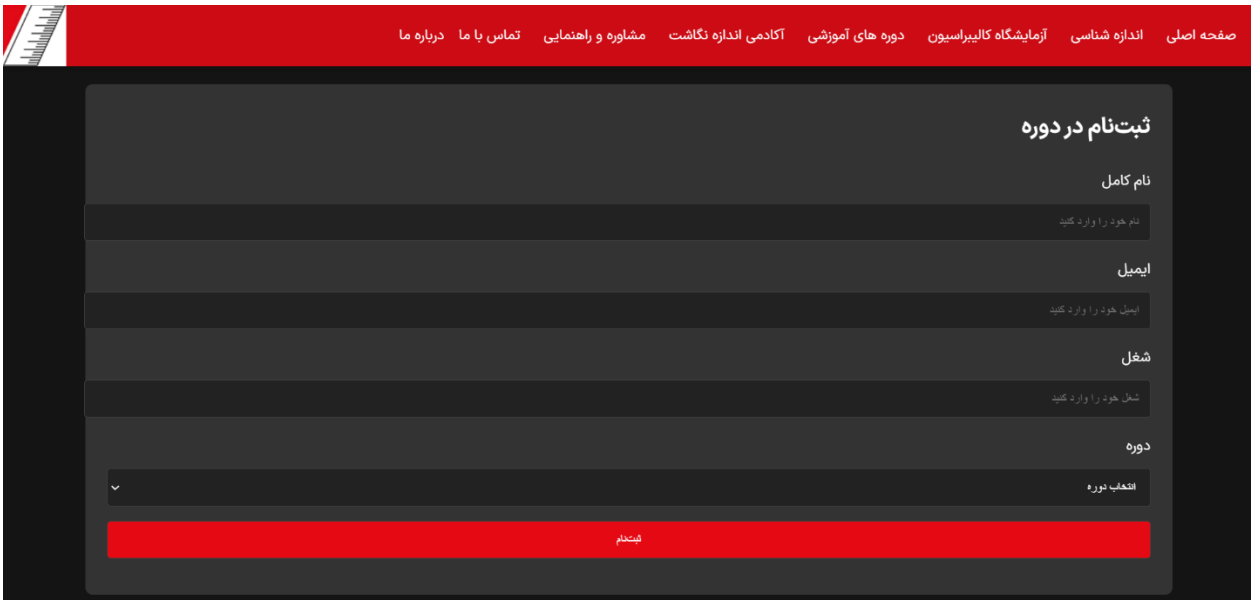

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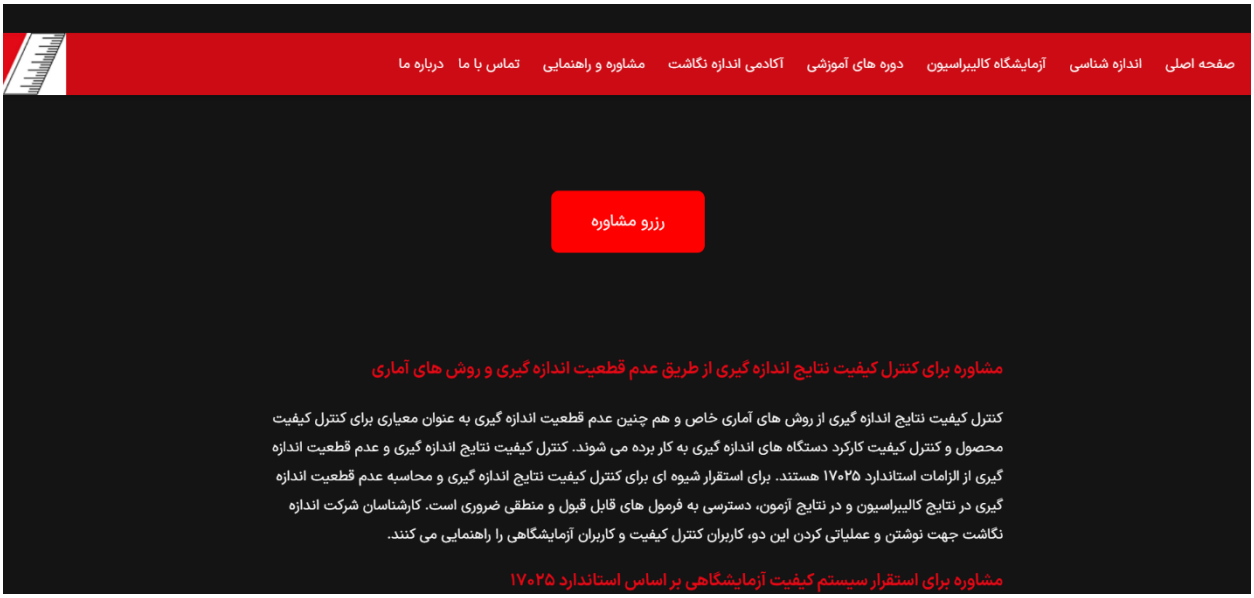

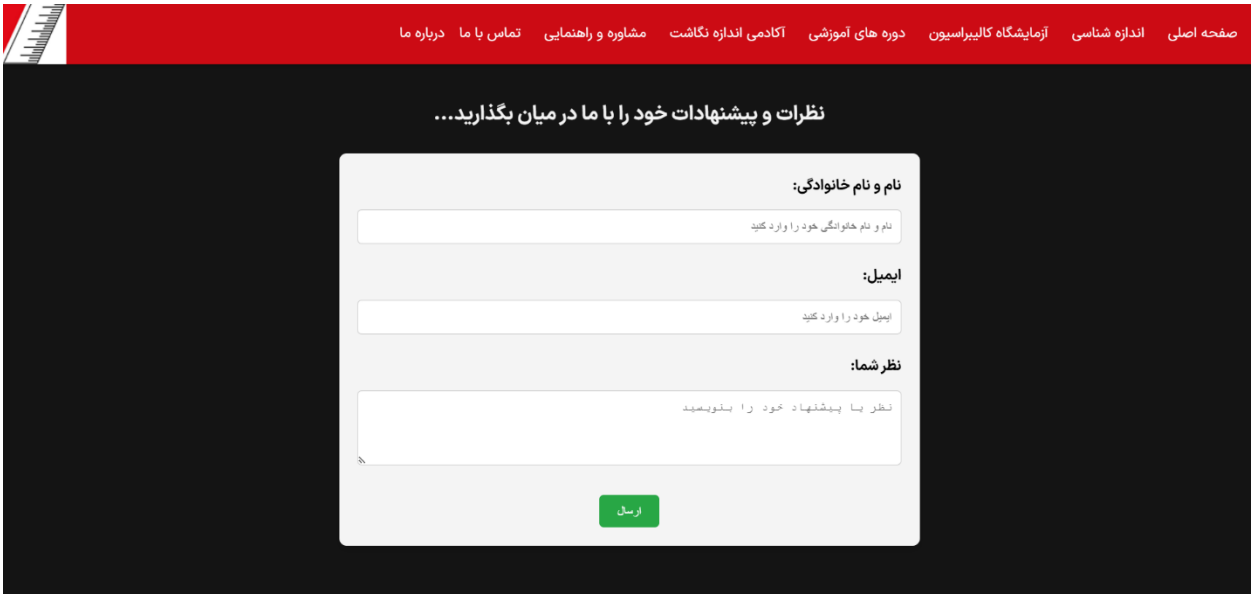

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