

TOBB ETU

Economy & Technology University

BIL 481

Software Requirements Specification (SRS)

*Reference: IEEE 830-1998 / ISO/IEC/IEEE 29148:2018*

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## Document Control Table

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| 1.0 | (Date) | (Author) | (Approver) | Initial Release |
| 1.1 |  |  |  | Minor editorial updates |
| 1.2 |  |  |  | Added stakeholder feedback section |

## Introduction

### 1.1 Purpose

This document specifies the software requirements for the "TOBBLU HIZMET" project for the BIL 481 course. It defines the project's scope, functionalities, and constraints. This document is intended for the project team (developers, QA) and the course instructor to establish a clear and agreed-upon basis for design, development, and testing.

### 1.2 Scope

This project is the development of a modern, web-based freelancing platform designed to efficiently connect clients with skilled professionals. The platform's core purpose is to address the challenge of finding the right local talent by creating a centralized marketplace.

Major capabilities include:

* A matching system that intelligently filters freelancers based on location, skills, and price.
* A demo payment system.
* An integrated chat system for user negotiation and confirmation.

## Overall Description

### 2.1 Product Perspective

"TOBBLU HIZMET" is a new web application. It will be developed from the ground up and will not be integrated with any existing larger systems. It will operate independently and will not connect to third-party services like real payment gateways or external calendars.

### 2.2 Product Functions

The platform will provide the following key functions to its users:

* User Registration and Profile Management
* Job Posting
* Freelancer Matching
* Negotiation
* Secure Transaction (Demo)

### 2.3 User Characteristics

The platform is designed for two main user groups:

* Clients: Individuals, startups, and small to medium-sized businesses that need to hire skilled professionals for specific projects and hiring.
* Freelancers: Skilled independent professionals (e.g., designers, developers, writers) seeking a platform to find local and budget-appropriate job opportunities.

### 2.4 Assumptions and Dependencies

* Assumption: Team members possess or will acquire the necessary technical skills (e.g., in the chosen front-end, back-end, and database technologies) to complete the four selected use cases.
* Assumption: The free-tier services selected for hosting and database management will remain available and sufficient for the project's demo purposes.
* Dependency: The project's timeline is dependent on all team members contributing their work on time for each assignment milestone.

## Specific Requirements

### 3.1 Functional Requirements

This section details the functional requirements of the system.

User Management

* The system shall allow a new user to register with an email and password.
* The system shall allow a registered user to login.
* The system shall allow a user to create a profile as either a "Client" or "Freelancer".
* The system shall allow a "Freelancer" user to add skills, experience, and location to their profile.

Job & Matching System

* The system shall allow a "Client" user to post a new job, specifying a description, skill requirements, and a price/budge.
* The system shall provide a matching system that allows users to find freelancers based on location, skills, and price.
* The matching system shall prioritize freelancers whose location is closer to the client.

Communication & Transaction

* The system shall provide a real-time chat interface for users to communicate and negotiate job details.
* The system shall (in demo) collect payment from the "Client" and hold it in an escrow state when a job is agreed upon.
* The system shall (in demo) release the payment to the "Freelancer" only after both parties have confirmed the job is complete.
* The system shall allow users to leave a rating and review for each other after a job is completed.

### 3.2 External Interface Requirements

* User Interfaces: The system will provide a web-based graphical user interface (GUI) that is viewable on standard desktop web browsers. Wireframes and screenshots of the UI will be provided in the Design Document.
* Hardware Interfaces: None. The system will operate on standard user computers and cloud servers.
* Software Interfaces: None. The platform will not integrate with any third-party APIs or external services.

### 3.3 Performance Requirements

This section defines the system's performance characteristics, which were formerly classified as non-functional requirements.

* The matching system shall return a list of filtered freelancers within 2 seconds of the query.
* Real-time chat messages shall be delivered to the recipient's interface in under 1 second (assuming a stable internet connection).

### 3.4 Design Constraints

* The system must be developed as a web-based application.
* All development must be managed using Git and submitted via a GitHub repository.
* All tools, libraries, and frameworks used must be open-source or available under a free license.
* The final deployment must use free-tier hosting services.

## References

*(This section will be populated during the project's development with citations for any external documentation, frameworks, or research used.)*