

# Software Requirements Specification (SRS)

## Upwork Proposal Assistant

University Project Team

January 5, 2026

# Contents

<b>1</b>	<b>Introduction</b>	<b>4</b>
1.1	Purpose . . . . .	4
1.2	Scope . . . . .	4
1.2.1	System Capabilities . . . . .	4
1.2.2	System Boundaries . . . . .	5
1.3	Definitions, Acronyms, and Abbreviations . . . . .	5
1.4	References . . . . .	5
1.5	Document Overview . . . . .	6
<b>2</b>	<b>Overall Description</b>	<b>7</b>
2.1	Product Perspective . . . . .	7
2.1.1	System Context . . . . .	8
2.1.2	System Boundaries . . . . .	8
2.1.3	Relationship to Existing Systems . . . . .	8
2.1.4	Operational Perspective . . . . .	8
2.2	Product Functions . . . . .	9
2.2.1	Client and Job Information Collection . . . . .	9
2.2.2	Client Reliability Analysis . . . . .	10
2.2.3	Client Quality Scoring . . . . .	10
2.2.4	Proposal Template Generation . . . . .	10
2.2.5	Proposal Editing and Customization . . . . .	10
2.2.6	Proposal History Management . . . . .	11
2.2.7	Administrative Functions . . . . .	11
2.2.8	User Interaction and Feedback . . . . .	11
2.3	User Classes and Characteristics . . . . .	11
2.4	Operating Environment . . . . .	12
2.5	Design and Implementation Constraints . . . . .	12
2.6	User Documentation . . . . .	12
2.7	Assumptions and Dependencies . . . . .	12

<b>3</b>	<b>External Interface Requirements</b>	<b>14</b>
3.1	Introduction . . . . .	14
3.2	User Interfaces . . . . .	14
3.2.1	General Design Principles . . . . .	14
3.2.2	Interface Components . . . . .	14
3.3	Hardware Interfaces . . . . .	15
3.3.1	Supported Hardware Platforms . . . . .	15
3.3.2	Input and Output Devices . . . . .	16
3.4	Software Interfaces . . . . .	16
3.4.1	Operating Systems . . . . .	16
3.4.2	Web Browsers . . . . .	16
3.4.3	Platform Interaction (Upwork DOM) . . . . .	16
3.4.4	Database and Backend Services . . . . .	17
3.5	Communications Interfaces . . . . .	17
3.5.1	Network Protocols . . . . .	17
3.5.2	Data Exchange Formats . . . . .	17
3.6	Memory Constraints . . . . .	17
3.7	Site Adaptation Requirements . . . . .	17
3.8	FR-003: Freelancer Decision Support System . . . . .	18
3.8.1	Description . . . . .	18
3.8.2	Inputs . . . . .	18
3.8.3	Processing . . . . .	18
3.8.4	Outputs . . . . .	19
3.9	FR-004: Proposal Template Management & Ranking . . . . .	19
3.9.1	Description . . . . .	19
3.9.2	Inputs . . . . .	19
3.9.3	Processing . . . . .	19
3.9.4	Outputs . . . . .	20
3.10	FR-005: Proposal History and Analytics . . . . .	20
3.10.1	Description . . . . .	20
3.10.2	Inputs . . . . .	20
3.10.3	Processing . . . . .	20
3.10.4	Outputs . . . . .	20
<b>4</b>	<b>Non-Functional Requirements</b>	<b>21</b>
<b>5</b>	<b>Diagrams and Models</b>	<b>24</b>
<b>6</b>	<b>Appendices</b>	<b>26</b>

**7 References****28**

# 1 Introduction

## 1.1 Purpose

The primary purpose of this Software Requirements Specification (SRS) is to provide a comprehensive and definitive description of the Upwork Proposal Assistant. This document explicitly defines the functional and non-functional requirements to ensure that the final product aligns with the expectations of the Requirement Provider (RP) and the academic standards of the University.

This document is designed to serve as:

- **A Technical Baseline:** Providing the development team with a clear roadmap for architectural design.
- **A Validation Framework:** Establishing the criteria against which the system will be tested during the Quality Assurance phase.
- **An Agreement Document:** Serving as a formal contract between the RP and the development team to minimize scope creep and ambiguity.

This SRS follows the IEEE Std 830-1984 guidelines, ensuring that requirements are unambiguous, complete, verifiable, and consistent.

## 1.2 Scope

The Upwork Proposal Assistant is a specialized browser extension designed to optimize the workflow of professional freelancers. In the current competitive landscape of the Upwork platform, freelancers spend an average of 15–20 minutes per job application. This system aims to reduce that overhead by approximately 60% through automated data extraction and AI-driven template generation.

### 1.2.1 System Capabilities

- **Client Spend History:** Identifying whether the client has a history of high-value hires.

- **Feedback Sentiment:** Analyzing the linguistic tone of previous reviews left for the client.
- **Geographic Constraints:** Checking for timezone compatibility between the freelancer and the client.

### 1.2.2 System Boundaries

The system functions strictly as an “Assistant”. It does not automate proposal submission, adhering to Upwork’s Terms of Service.

## 1.3 Definitions, Acronyms, and Abbreviations

<b>RP</b>	Requirement Provider: The individual or entity responsible for defining the system goals.
<b>SRS</b>	Software Requirements Specification: The formal document describing system requirements.
<b>JSR</b>	Job Success Rate: A metric used by Upwork to measure freelancer performance.
<b>DOM</b>	Document Object Model: The data structure of a web page accessed by the extension.
<b>NFR</b>	Non-Functional Requirement: Constraints related to performance, security, or usability.
<b>API</b>	Application Programming Interface: Enables communication between the extension and backend services.

### Extension Manifest

The configuration file defining extension permissions and scripts.

## 1.4 References

1. IEEE Std 830-1984, IEEE Guide to Software Requirements Specifications.
2. IEEE Std 729-1983, IEEE Standard Glossary of Software Engineering Terminology.
3. University Project Milestone 2 Guidelines.
4. Upwork Terms of Service and API Usage Policies.

## 1.5 Document Overview

The remainder of this SRS is organized as follows:

- **Section 2: Overall Description** — Product perspective, user characteristics, constraints.
- **Section 3: Specific Requirements** — Functional requirements, system inputs/outputs.
- **Section 4: Non-Functional Requirements** — Performance, security, usability benchmarks.
- **Section 5: External Interface Requirements** — Hardware, software, communication interfaces.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

## 2 Overall Description

### 2.1 Product Perspective

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.



### 2.1.1 System Context

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

### 2.1.2 System Boundaries

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

### 2.1.3 Relationship to Existing Systems

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

### 2.1.4 Operational Perspective

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus,

vehicula eu, lacus.

## 2.2 Product Functions

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetur at, consectetur sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetur a, feugiat vitae, porttitor eu, libero. Suspendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetur. Nullam elementum, urna vel imperdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus. Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue. Nulla nec lacus.

Suspendisse vitae elit. Aliquam arcu neque, ornare in, ullamcorper quis, commodo eu, libero. Fusce sagittis erat at erat tristique mollis. Maecenas sapien libero, molestie et, lobortis in, sodales eget, dui. Morbi ultrices rutrum lorem. Nam elementum ullamcorper leo. Morbi dui. Aliquam sagittis. Nunc placerat. Pellentesque tristique sodales est. Maecenas imperdiet lacinia velit. Cras non urna. Morbi eros pede, suscipit ac, varius vel, egestas non, eros. Praesent malesuada, diam id pretium elementum, eros sem dictum tortor, vel consectetur odio sem sed wisi.

### 2.2.1 Client and Job Information Collection

Sed feugiat. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Ut pellentesque augue sed urna. Vestibulum diam eros, fringilla et, consectetur eu, nonummy id, sapien. Nullam at lectus. In sagittis ultrices mauris. Curabitur malesuada erat sit amet massa. Fusce blandit. Aliquam erat volutpat. Aliquam euismod. Aenean vel lectus. Nunc imperdiet justo nec dolor.

## 2.2.2 Client Reliability Analysis

Etiam euismod. Fusce facilisis lacinia dui. Suspendisse potenti. In mi erat, cursus id, nonummy sed, ullamcorper eget, sapien. Praesent pretium, magna in eleifend egestas, pede pede pretium lorem, quis consectetur tortor sapien facilisis magna. Mauris quis magna varius nulla scelerisque imperdiet. Aliquam non quam. Aliquam porttitor quam a lacus. Praesent vel arcu ut tortor cursus volutpat. In vitae pede quis diam bibendum placerat. Fusce elementum convallis neque. Sed dolor orci, scelerisque ac, dapibus nec, ultricies ut, mi. Duis nec dui quis leo sagittis commodo.

## 2.2.3 Client Quality Scoring

Aliquam lectus. Vivamus leo. Quisque ornare tellus ullamcorper nulla. Mauris porttitor pharetra tortor. Sed fringilla justo sed mauris. Mauris tellus. Sed non leo. Nullam elementum, magna in cursus sodales, augue est scelerisque sapien, venenatis congue nulla arcu et pede. Ut suscipit enim vel sapien. Donec congue. Maecenas urna mi, suscipit in, placerat ut, vestibulum ut, massa. Fusce ultrices nulla et nisl.

## 2.2.4 Proposal Template Generation

Etiam ac leo a risus tristique nonummy. Donec dignissim tincidunt nulla. Vestibulum rhoncus molestie odio. Sed lobortis, justo et pretium lobortis, mauris turpis condimentum augue, nec ultricies nibh arcu pretium enim. Nunc purus neque, placerat id, imperdiet sed, pellentesque nec, nisl. Vestibulum imperdiet neque non sem accumsan laoreet. In hac habitasse platea dictumst. Etiam condimentum facilisis libero. Suspendisse in elit quis nisl aliquam dapibus. Pellentesque auctor sapien. Sed egestas sapien nec lectus. Pellentesque vel dui vel neque bibendum viverra. Aliquam porttitor nisl nec pede. Proin mattis libero vel turpis. Donec rutrum mauris et libero. Proin euismod porta felis. Nam lobortis, metus quis elementum commodo, nunc lectus elementum mauris, eget vulputate ligula tellus eu neque. Vivamus eu dolor.

## 2.2.5 Proposal Editing and Customization

Nulla in ipsum. Praesent eros nulla, congue vitae, euismod ut, commodo a, wisi. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aenean nonummy magna non leo. Sed felis erat, ullamcorper in, dictum non, ultricies ut, lectus. Proin vel arcu a odio lobortis euismod. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Proin ut est. Aliquam odio. Pellentesque massa turpis, cursus eu, euismod nec, tempor congue, nulla. Duis viverra gravida mauris. Cras tincidunt. Curabitur eros ligula, varius ut, pulvinar in, cursus faucibus, augue.

## 2.2.6 Proposal History Management

Nulla mattis luctus nulla. Duis commodo velit at leo. Aliquam vulputate magna et leo. Nam vestibulum ullamcorper leo. Vestibulum condimentum rutrum mauris. Donec id mauris. Morbi molestie justo et pede. Vivamus eget turpis sed nisl cursus tempor. Curabitur mollis sapien condimentum nunc. In wisi nisl, malesuada at, dignissim sit amet, lobortis in, odio. Aenean consequat arcu a ante. Pellentesque porta elit sit amet orci. Etiam at turpis nec elit ultricies imperdiet. Nulla facilisi. In hac habitasse platea dictumst. Suspendisse viverra aliquam risus. Nullam pede justo, molestie nonummy, scelerisque eu, facilisis vel, arcu.

## 2.2.7 Administrative Functions

Curabitur tellus magna, porttitor a, commodo a, commodo in, tortor. Donec interdum. Praesent scelerisque. Maecenas posuere sodales odio. Vivamus metus lacus, varius quis, imperdiet quis, rhoncus a, turpis. Etiam ligula arcu, elementum a, venenatis quis, sollicitudin sed, metus. Donec nunc pede, tincidunt in, venenatis vitae, faucibus vel, nibh. Pellentesque wisi. Nullam malesuada. Morbi ut tellus ut pede tincidunt porta. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam congue neque id dolor.

## 2.2.8 User Interaction and Feedback

Donec et nisl at wisi luctus bibendum. Nam interdum tellus ac libero. Sed sem justo, laoreet vitae, fringilla at, adipiscing ut, nibh. Maecenas non sem quis tortor eleifend fermentum. Etiam id tortor ac mauris porta vulputate. Integer porta neque vitae massa. Maecenas tempus libero a libero posuere dictum. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Aenean quis mauris sed elit commodo placerat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Vivamus rhoncus tincidunt libero. Etiam elementum pretium justo. Vivamus est. Morbi a tellus eget pede tristique commodo. Nulla nisl. Vestibulum sed nisl eu sapien cursus rutrum.

## 2.3 User Classes and Characteristics

Nulla non mauris vitae wisi posuere convallis. Sed eu nulla nec eros scelerisque pharetra. Nullam varius. Etiam dignissim elementum metus. Vestibulum faucibus, metus sit amet mattis rhoncus, sapien dui laoreet odio, nec ultricies nibh augue a enim. Fusce in ligula. Quisque at magna et nulla commodo consequat. Proin accumsan imperdiet sem. Nunc porta. Donec feugiat mi at justo. Phasellus facilisis ipsum quis ante. In ac elit eget ipsum pharetra faucibus. Maecenas viverra nulla in massa.

## 2.4 Operating Environment

Nulla ac nisl. Nullam urna nulla, ullamcorper in, interdum sit amet, gravida ut, risus. Aenean ac enim. In luctus. Phasellus eu quam vitae turpis viverra pellentesque. Duis feugiat felis ut enim. Phasellus pharetra, sem id porttitor sodales, magna nunc aliquet nibh, nec blandit nisl mauris at pede. Suspendisse risus risus, lobortis eget, semper at, imperdiet sit amet, quam. Quisque scelerisque dapibus nibh. Nam enim. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut metus. Ut metus justo, auctor at, ultrices eu, sagittis ut, purus. Aliquam aliquam.

## 2.5 Design and Implementation Constraints

Etiam pede massa, dapibus vitae, rhoncus in, placerat posuere, odio. Vestibulum luctus commodo lacus. Morbi lacus dui, tempor sed, euismod eget, condimentum at, tortor. Phasellus aliquet odio ac lacus tempor faucibus. Praesent sed sem. Praesent iaculis. Cras rhoncus tellus sed justo ullamcorper sagittis. Donec quis orci. Sed ut tortor quis tellus euismod tincidunt. Suspendisse congue nisl eu elit. Aliquam tortor diam, tempus id, tristique eget, sodales vel, nulla. Praesent tellus mi, condimentum sed, viverra at, consectetur quis, lectus. In auctor vehicula orci. Sed pede sapien, euismod in, suscipit in, pharetra placerat, metus. Vivamus commodo dui non odio. Donec et felis.

## 2.6 User Documentation

Etiam suscipit aliquam arcu. Aliquam sit amet est ac purus bibendum congue. Sed in eros. Morbi non orci. Pellentesque mattis lacinia elit. Fusce molestie velit in ligula. Nullam et orci vitae nibh vulputate auctor. Aliquam eget purus. Nulla auctor wisi sed ipsum. Morbi porttitor tellus ac enim. Fusce ornare. Proin ipsum enim, tincidunt in, ornare venenatis, molestie a, augue. Donec vel pede in lacus sagittis porta. Sed hendrerit ipsum quis nisl. Suspendisse quis massa ac nibh pretium cursus. Sed sodales. Nam eu neque quis pede dignissim ornare. Maecenas eu purus ac urna tincidunt congue.

## 2.7 Assumptions and Dependencies

Donec et nisl id sapien blandit mattis. Aenean dictum odio sit amet risus. Morbi purus. Nulla a est sit amet purus venenatis iaculis. Vivamus viverra purus vel magna. Donec in justo sed odio malesuada dapibus. Nunc ultrices aliquam nunc. Vivamus facilisis pellentesque velit. Nulla nunc velit, vulputate dapibus, vulputate id, mattis ac, justo.

Nam mattis elit dapibus purus. Quisque enim risus, congue non, elementum ut, mattis quis, sem. Quisque elit.

Maecenas non massa. Vestibulum pharetra nulla at lorem. Duis quis quam id lacus dapibus interdum. Nulla lorem. Donec ut ante quis dolor bibendum condimentum. Etiam egestas tortor vitae lacus. Praesent cursus. Mauris bibendum pede at elit. Morbi et felis a lectus interdum facilisis. Sed suscipit gravida turpis. Nulla at lectus. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Praesent nonummy luctus nibh. Proin turpis nunc, congue eu, egestas ut, fringilla at, tellus. In hac habitasse platea dictumst.

## 3 External Interface Requirements

### 3.1 Introduction

This section provides a detailed description of all external touchpoints for the Upwork Proposal Assistant. In accordance with IEEE Std 830-1984, it specifies the logical and physical characteristics of each interface between the software product and the users, hardware, other software, and communication protocols[cite: 99, 100]. This ensures that the system is fully integrated into the freelancer’s environment without technical friction.

### 3.2 User Interfaces

The User Interface (UI) is the most critical external interface, as it facilitates the freelancer’s interaction with complex data analysis. The UI shall be delivered as a non-intrusive browser-based overlay and a dedicated dashboard.

#### 3.2.1 General Design Principles

- **Consistency:** All UI elements shall follow a unified color palette (Upwork-compatible greens and grays) and typography to minimize cognitive load[cite: 73].
- **Responsiveness:** UI components must adapt to various browser window sizes without overlapping native Upwork elements[cite: 93].
- **Aesthetics and Layout:** The interface will use a clean, modern card-based layout for presenting client scores and job recommendations.

#### 3.2.2 Interface Components

##### Browser Extension Popup

The popup serves as the primary control center. It shall include:

- **Display:** A high-level view of the current page status (e.g., ”Job Detected,” ”No Job Found”).

- **Action Buttons:** "Analyze Client," "Generate Draft," and "View History."
- **Input Fields:** Credentials for authentication and settings for AI tone (e.g., Professional, Conversational).

### On-Page Overlay (DOM Injection)

To ensure high usability, the system shall inject visual cues directly onto the Upwork job search results and job description pages.

- **Client Score Badge:** A color-coded badge (Green, Yellow, Red) next to the client's name indicating their reliability score[cite: 54, 59].
- **Quick-Action Sidebar:** A collapsible sidebar on job description pages providing a summary of "Client Spend History" and "Feedback Sentiment" [cite: 33-35].

### The Dashboard (Stand-alone Interface)

For advanced management, a full-page dashboard will be provided.

- **Analytics View:** Graphical representations of proposal success rates and earnings trends.
- **Template Editor:** A rich-text editor for managing and ranking proposal templates [cite: 60-61].

## 3.3 Hardware Interfaces

The Upwork Proposal Assistant is a software-based browser extension and does not require custom-built hardware. However, it must interface with standard computing hardware to function effectively [cite: 101-103].

### 3.3.1 Supported Hardware Platforms

- **Processors:** Minimum x86 or ARM-based processors capable of running modern web browsers.
- **Memory:** A minimum of 4GB RAM is required to ensure the extension and the Upwork platform run concurrently without performance degradation[cite: 66, 102].
- **Display:** Minimum resolution of 1280x720 pixels to accommodate the extension's sidebars and overlays[cite: 111].



### 3.3.2 Input and Output Devices

- **Input:** The system shall interface with standard keyboards and pointing devices (mouse/trackpad). Support for touch-screen inputs on tablets is also required [cite: 107-109].
- **Output:** The primary output is visual via the system monitor. The system will not require audio output devices unless future accessibility features are added[cite: 110].

## 3.4 Software Interfaces

This section defines the system's dependencies on other software products and the methods of data exchange.

### 3.4.1 Operating Systems

The system shall be operating system agnostic, provided the OS supports the required web browsers. This includes:

- Microsoft Windows 10 and 11.
- macOS (v12.0 and later).
- Linux distributions supporting Chromium or Firefox-based browsers.

### 3.4.2 Web Browsers

The extension must maintain full compatibility with the following browser engines:

- **Chromium-based:** Google Chrome (v100+), Microsoft Edge, and Brave[cite: 44, 125].
- **Gecko-based:** Mozilla Firefox (v95+).

### 3.4.3 Platform Interaction (Upwork DOM)

As the system does not use a direct Upwork API for scraping, it must interface with the Upwork web application via the Document Object Model (DOM).

- **Data Extraction:** The system shall use CSS selectors and XPath to identify and extract job success rates (JSR), budget history, and client reviews [cite: 16-17].
- **Event Listeners:** The extension shall interface with the browser's event loop to detect when a user navigates to a new job post, triggering the analysis module.

### 3.4.4 Database and Backend Services

- **Database Interface:** The system shall interface with a cloud-based database (e.g., PostgreSQL or MongoDB) via a RESTful API to store user profiles and proposal history [cite: 115-118].
- **AI API (Large Language Model):** The system shall interface with external AI providers (such as OpenAI's GPT-4 or Anthropic's Claude) using JSON-formatted requests for proposal generation [cite: 126-128].

## 3.5 Communications Interfaces

The Upwork Proposal Assistant requires active internet connectivity to communicate with backend services and the Upwork platform.

### 3.5.1 Network Protocols

- **HTTP/HTTPS:** All communication between the extension and the backend servers must use HTTPS (TLS 1.2 or higher) to ensure data integrity and security[cite: 78].
- **WebSockets:** For real-time analysis updates, the system may utilize WebSockets to push notifications to the user interface.

### 3.5.2 Data Exchange Formats

- **JSON (JavaScript Object Notation):** The primary format for all data exchange between the extension, backend services, and AI APIs.
- **UTF-8 Encoding:** To ensure support for international characters in job descriptions and client reviews.

## 3.6 Memory Constraints

The browser extension shall occupy no more than 150MB of browser memory during active analysis. During idle states, memory usage must drop below 50MB to prevent system lag on lower-end devices.

## 3.7 Site Adaptation Requirements

The software is designed for global use. However, it must adapt to localized versions of the Upwork platform (e.g., upwork.com vs regional variations). The interface must

support the scaling of fonts based on system-wide accessibility settings[cite: 92].

## 3.8 FR-003: Freelancer Decision Support System

### 3.8.1 Description

The Decision Support System (DSS) acts as the analytical "brain" of the extension. It synthesizes the data collected by FR-001 (Client Analysis) and provides a final verdict. The goal is to prevent freelancers from wasting "Connects" on job posts where the client has a low probability of hiring or a history of underpaying.

### 3.8.2 Inputs

- **Aggregated Client Score:** The 1-100 normalized value from the Analysis Engine.
- **Average Interview Rate:** The percentage of applicants the client actually interviews.
- **Job Post Recency:** Time elapsed since the job was posted.
- **Number of Applicants:** The current range of proposals already submitted (e.g., 5-10, 20-50).

### 3.8.3 Processing

The system shall apply a multi-tier logic gate to determine the final recommendation:

1. **Tier 1 (The "Connects" Safeguard):** If the number of applicants is  $> 50$  and the Client Hire Rate is  $< 30\%$ , the system shall output a "Skip" recommendation to save the user's resources.
2. **Tier 2 (Scoring Calibration):**
  - **Score  $> 80$ :** High Reliability (Strong Apply).
  - **Score 50-79:** Average Reliability (Apply with Caution).
  - **Score  $< 50$ :** Poor Reliability (Skip).
3. **Tier 3 (Urgency Logic):** If the job was posted within the last 30 minutes and the client has a high hire rate ( $> 70\%$ ), the system shall add an "Urgent Action" badge to the recommendation.

### 3.8.4 Outputs

- **Recommendation Badge:** Color-coded labels (Green: Strong Apply, Yellow: Caution, Red: Skip).
- **Reasoning Summary:** A short text explanation (e.g., "Client has a 90% hire rate but pays 20% below market average").
- **Probability Estimate:** A percentage indicating the likelihood of the client viewing the proposal based on current competition.

## 3.9 FR-004: Proposal Template Management & Ranking

### 3.9.1 Description

This module allows the freelancer (and the Admin) to manage a library of proposal templates. Unlike a static notepad, this system tracks which templates result in "Views" or "Hires" on Upwork and ranks them accordingly.

### 3.9.2 Inputs

- **Template Title and Body:** User-defined text and placeholders (e.g., [Client\_Name]).
- **Success Metadata:** Manual input from the user when a proposal leads to an interview or hire.
- **Tagging Data:** Categorization such as "Fixed Price," "Hourly," or "Short Notice."

### 3.9.3 Processing

1. **Ranking Algorithm:** The system shall calculate a "Success Velocity" for each template:  $V = (Interviews / TotalUses) \times 100$ .
2. **Placeholder Parsing:** The system shall scan the template for brackets [] and automatically map them to data scraped from the Upwork page (e.g., mapping [Project\_Title] to the actual job header).
3. **Auto-Archive Logic:** Templates that have been used 10+ times without an interview shall be flagged as "Low Performance" and moved to the bottom of the list.

### 3.9.4 Outputs

- **Template Library View:** A searchable list of all templates sorted by their Success Velocity.
- **Performance Badges:** "Top Performer," "Rising," or "Needs Improvement" icons next to each template.
- **Dynamic Insertion Menu:** A dropdown menu within the browser extension for instant selection.

## 3.10 FR-005: Proposal History and Analytics

### 3.10.1 Description

To support long-term growth, the system shall maintain a historical record of all proposals generated. This allows the freelancer to audit their own performance and refine their strategy.

### 3.10.2 Inputs

- **Historical Proposal Text:** Stored locally or in the cloud database.
- **Timestamp:** Date and time of generation.
- **Target Client ID:** The unique identifier of the Upwork client.

### 3.10.3 Processing

1. **Trend Analysis:** The system shall aggregate data weekly to show if the user's average Client Reliability Score is increasing or decreasing over time.
2. **Keyword Optimization:** The system shall identify recurring keywords in "Successful" vs "Failed" proposals.

### 3.10.4 Outputs

- **Analytics Dashboard:** Graphical charts (Bar charts for weekly usage, Pie charts for success rates).
- **Export Feature:** Ability to download proposal history in CSV or PDF format for offline review.

## 4 Non-Functional Requirements

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet

nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetur at, consectetur sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetur a, feugiat vitae, porttitor eu, libero. Suspendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetur. Nullam

elementum, urna vel imperdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus. Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue. Nulla nec lacus.

Suspendisse vitae elit. Aliquam arcu neque, ornare in, ullamcorper quis, commodo eu, libero. Fusce sagittis erat at erat tristique mollis. Maecenas sapien libero, molestie et, lobortis in, sodales eget, dui. Morbi ultrices rutrum lorem. Nam elementum ullamcorper leo. Morbi dui. Aliquam sagittis. Nunc placerat. Pellentesque tristique sodales est. Maecenas imperdiet lacinia velit. Cras non urna. Morbi eros pede, suscipit ac, varius vel, egestas non, eros. Praesent malesuada, diam id pretium elementum, eros sem dictum tortor, vel consectetur odio sem sed wisi.

Sed feugiat. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Ut pellentesque augue sed urna. Vestibulum diam eros, fringilla et, consectetur eu, nonummy id, sapien. Nullam at lectus. In sagittis ultrices mauris. Curabitur malesuada erat sit amet massa. Fusce blandit. Aliquam erat volutpat. Aliquam euismod. Aenean vel lectus. Nunc imperdiet justo nec dolor.



## 5 Diagrams and Models

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

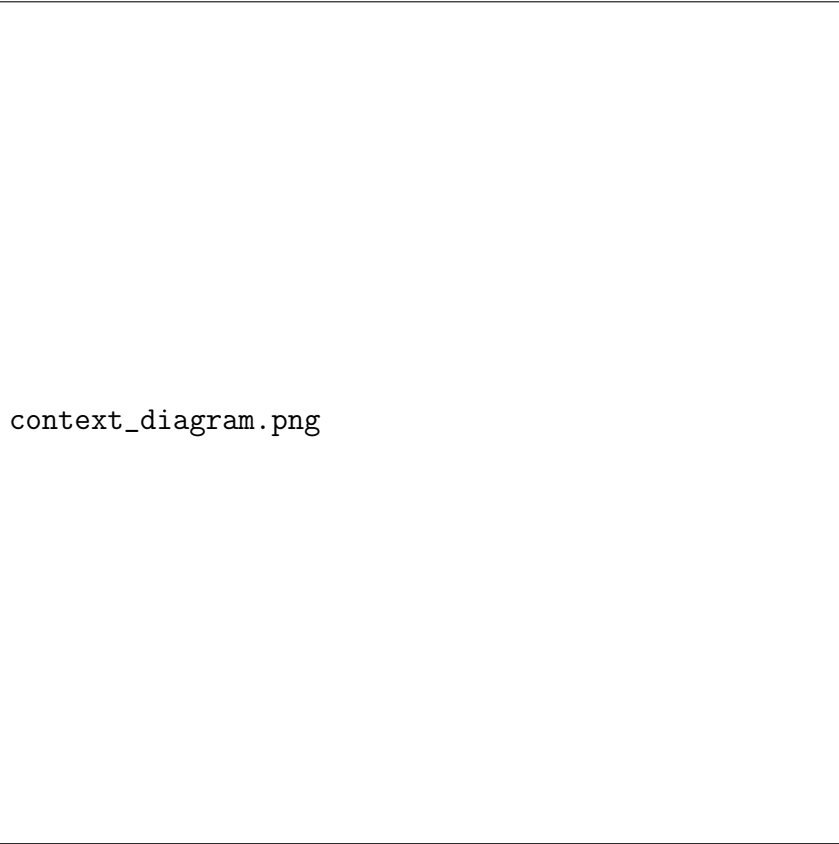
Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet

nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.



context\_diagram.png

Figure 5.1: System Context Diagram

## 6 Appendices

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet

nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

## 7 References

1. IEEE Std 830-1984, IEEE Guide to Software Requirements Specifications.
2. IEEE Std 729-1983, IEEE Standard Glossary of Software Engineering Terminology.
3. University Project Milestone 2 Guidelines.
4. Upwork Terms of Service and API Usage Policies.