

# Requirements Documentation

## 1. Introduction

### 1.1 Purpose

### 1.2 Scope

The scope of the project is to provide a service by which a user can create a landing page containing links to various aspects of their brand or personality.

### 1.3 Definitions, Acronyms, Abbreviations

- JWT - JSON Web Token
- Input blur - when a focused input becomes unfocused. Example: clicking out of a text field
- NPM - Node package manager

### 1.4 References

- [React](#) - Frontend library for building out the user interface, with reactive features.
- [Next.js](#) - Frontend React framework to handle routing.
- [Express](#) - Backend framework for the API.
- [Bootstrap](#) - Frontend styling framework.
- [Formik](#) - Form library for use with React.

## 2. General Description

### 2.1 Product Perspective

These days, the line between people and brands is an ever blurring one. Not everyone wants to create a website (though there are a plethora of services by which one could do this easily). Most people exist on a variety of platforms, and would like to provide easy access to each one from each one. OneLink will solve this problem, by creating a single location in which users can provide links to each of their platforms.

### 2.2 Product Functions

The software will provide an easy-to-access interface by which a user can add/remove links to their various platforms (or other websites if they wish). The user may also set a background to add an element of personalization. While very simple tasks, it allows a user to create a sort of personal website in as little time as five minutes.

### 2.3 User Characteristics

The vast majority of users of this website will be internet influencers, celebrities, or people with dedicated audiences. Larger brands will also be likely users of this software. All of these types of users have a vested interest in getting as many of their followers to visit any number of websites they are associated with.

### 2.4 General constraints

This software in its deployed form requires an internet connection, but as an installed piece of software running on a local machine, no connection is necessary. Other than that, most machines these days can run Node.js which is all that is necessary to run this software.

## **2.5 Assumptions and dependencies**

This software assumes a web browser to be installed as well as some method by which to run the software from the command line. Nearly every operating system has these. This software requires that the Node.js runtime (and NPM) be installed, but that installer will be included. The Node.js Windows installer includes NPM.

# **3. Specific Requirements**

## **1. Account Management**

1. User should be allowed to create an account
2. User should be allowed to choose a username
3. Passwords should not have constraints that enforce insecure standards.
4. User should be able to log in with their credentials and be directed to their account management
5. User can edit profile from management screen
6. User can follow link to manage links from management screen

## **2. Links**

1. The interface should resemble a modular design
2. User should add as many links as they want
3. Users can delete links
4. All links will auto-save after input blur, deletion, and adding links
5. Links will display with a pre-defined neutral color

## **3. Profile**

1. User can set landing page background
2. User can set a custom bio
3. User can save profile settings by clicking "Save"