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Deployment Plan

SCOPE AND OBJECTIVES

- This plan describes how our software product (Fit Or Fail) will be implemented
- Document organization
  1. Requirements
  2. Installation and deployment plan
  3. Product maintenance plan
  4. Training plan
  5. Product usage

REQUIREMENTS:

- Required Resources
  - Computer
  - Web Hosting Service
    - Domain Name
    - Server
  - Software
    - Web Browser
- Programming Languages and Software Packages
  - Frontend Languages
    - HTML, CSS, React JS (Next.js)
  - Backend Languages
    - MongoDB, Express JS
  - Software Packages
    - Various npm packages
- System Requirements
  - Any operating system is suitable (Windows, Linux, or Mac OS)
  - No minimum hardware requirements; scale as needed according to traffic.
- Dependencies
  - Hosting service (domain name and server)
  - Ability to use the above programming languages and software packages

INSTALLATION AND DEPLOYMENT PLAN

- When current version is ready to be deployed, you should complete the following steps
  1. Obtain Web hosting service (domain name and web server)
  2. Obtain a local database, or a remote database connection to use for the application

3. Adjust application environment variables to reflect database connection and configuration
4. Choose a secret to use for hashing passwords and adjust the JWT_SECRET environment variable
5. Upload all files to web host and follow their instructions for proper deployment

PRODUCT MAINTENANCE PLAN
- Throughout the software development lifecycle, our team will be using GitHub to store our project and maintain all versions following our first release. (NOTE: GitHub will enable our team to rollback our website/game to its previous version if a bug or error occurs)
- Our product will be constantly maintained and will be updated frequently as needed for its initial release to iron out bugs and to implement new features.
- Once our team deploys version 1.0 of the application, our client will be given access to the GitHub repository upon request.

TRAINING PLAN
- A detailed documentation file will be provided with all the necessary information on how to run/manage the application and an overview of the most important sections of the code, as well as instructions for making frequent backups of databases and how to restore from a backup in the event of a failure
- 6 months of general customer service and support
- 1-time IT employee training for up to 15 people (in-person or online)

PRODUCT USAGE
- Our software can be accessed and tested by following these steps:
  1. Launch your preferred web browser (Chrome, Firefox, etc.)
  2. Enter the website URL and connect to the website
  3. Create a user account or sign in with a pre-existing account (NOTE: There is a predefined Admin account with a default password that should be changed prior to live deployment)
  4. Once logged in, click on the PLAY! button at the top of the screen or on the home page, and follow the instructions to play the game