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**Open AI-powered dental chatbot**

**Document Control**

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# Project Guide

***Project target***

*We are aimed to develop an Open AI-powered dental chatbot SaaS which provides chatbots to the websites of dentists. Here are basic categories of our process.*

***Development for Website Frontend***

* *Guest panel for guests who don’t sign in yet.*
* *User panel for our customers*
* *Admin panel for admins and operators*

***Development for Website Backend***

* *Management of database including AI queries customers and operators*
* *Interaction with from frontend*
* *Open AI integration into dental chatbot*
* *Training our chatbot in three ways mentioned from the respected sponsor*
* *Providing live chat and chatbot into customer websites*

***Deployment***

* *Set domain as sub of* [*https://bestdentistmarketing.com*](https://bestdentistmarketing.com).

***Maintenance***

* *Handling customer feedback*
* *Upgrading version following the fashion and several demands*

## Techs

**Frontend**

React.js v18.0.0

React.js is needed for building interactive user interfaces and web applications quickly and efficiently with significantly.

Next.js v13.2

Next.js handles the tooling and configuration needed for React, and provides additional structure, features, and optimizations for your application

EJS v3.1.9

EJS is one of the most popular template engines for JavaScript.

**Backend**

Node.js v18.12.0

Node.js is a platform built on JavaScript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

MongoDB v6.0

MongoDB is a document database used to build highly available and scalable internet applications. And essential for processing for big data like AI database.

Open AI GPT-3

The cutting-edge of AI world.

Python v3.10.4

Python gives more emphasis on natural language.

## Milestones

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone** | **Description** | **Task** | **Delivery**  **Period** |
| Beta version [v0.1.0] | Login, Registration in frontend  Setting, Training in backend | To map design to mock up  To configure backend structure  To design database schema  To introduce backend routing based on MVC  To build guest (not logged in) login & registration pages  To build user (logged in) setting and training page  To build admin pages just to manage users  To load Open AI model gpt-3  To store database related with dental glossaries  To plant third training method | 8 days |
| To Build other guest pages with design  [v0.2.0] | Using JavaScript frameworks such as React.js, Next.js and EJS to make trial version more visible | To arrange proper components  To control state of DOM  To make backend APIs | 3 days |
| To complete functions of chatbot  [v0.5.0] | Giving our chatbot more trainings and providing live chat.  Building Inbox page in backend. | To let our chatbot able into dentists’ websites  To provide live chat in which operators take part | 2.5 days |
| To complete training  Test version [v0.7.0] | 2nd training method.  After this milestone, we can provide test version and start accepting feedback. | To scratch dentists’ websites using specific tool  To learn from result by model  To add them into origin database | 3.5 days |
| To complete user panel  [v0.8.0] | Building pages so that users can get more familiar to the service. | To handle APIs from frontend  To implement 5 pages   * Dashboard * Chatbots * Visitors * Contacts * Analytics | 4 days |
| To complete admin panel  [v0.9.0] | Building pages for administrators of this service | To investigate basics from serving team  To perform pages including statistics, settings, events, FAQs depending on requirements. | 3 days |
| To baby-launch  [v1.0.0] | Beginning for free in scale of 5 – 10 dentists and get feedbacks and make release version. |  | 3 days |
| To go on with operating SaaS | Continuing the service and keep maintenance |  | On going |
| Total period | | | 27 days |

## Constraints

* To integrate Open AI API, it will need Open AI API key for enterprise version.
* To deploy website, it will need account info in <https://www.cloudways.com>.