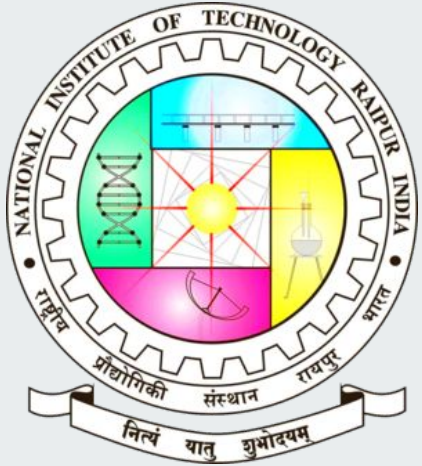
National Institute of Technology Raipur

Summer Internship Presentation



Department of Biomedical Engineering

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Semester: 7th

Table of content

1. Basic Information of Internship
1. About the Company
2. Role & Responsibilities
3. Designed Templates
4. Certificates
5. Skills
6. How can use in biomedical field
7. Telemedicine
8. Project overview

Basic Information of Internship

- ➔ Startup Name: Prabhupada World
- ➔ Position: Web Developer Intern
- ➔ Duration: 1 Month
- ➔ Internship Coordinator: Mr. Mayank Goel
- ➔ Mode of Internship: Online
- ➔ Type of Startup: Ecommerce
- ➔ Internship date: 21 April 2022 to 22 May 2022
- ➔ URL: https://prabhupadaworld.com/
- ➔ Head Office: Mumbai, Maharashtra

About the company: Prabhupada World

- ➔ It is an ecommerce startup where they are selling Prabhupada's written books and some Hindu worship items like garlands, incense sticks, Ganga Jal etc.
- ➔ Main motive is to promote the ideology of Srila Prabhupada, and spiritual and virtuous knowledge of the Bhagavad-gita.
- ➔ Srila Prabhupada is the Founder-Acharya of International Society for Krishna Consciousness (ISKCON) which brought a spiritual dimension to the lives of thousands of his followers.
- ➔ Also they are working with platforms such as: Podcast, Blogs and Webinars.

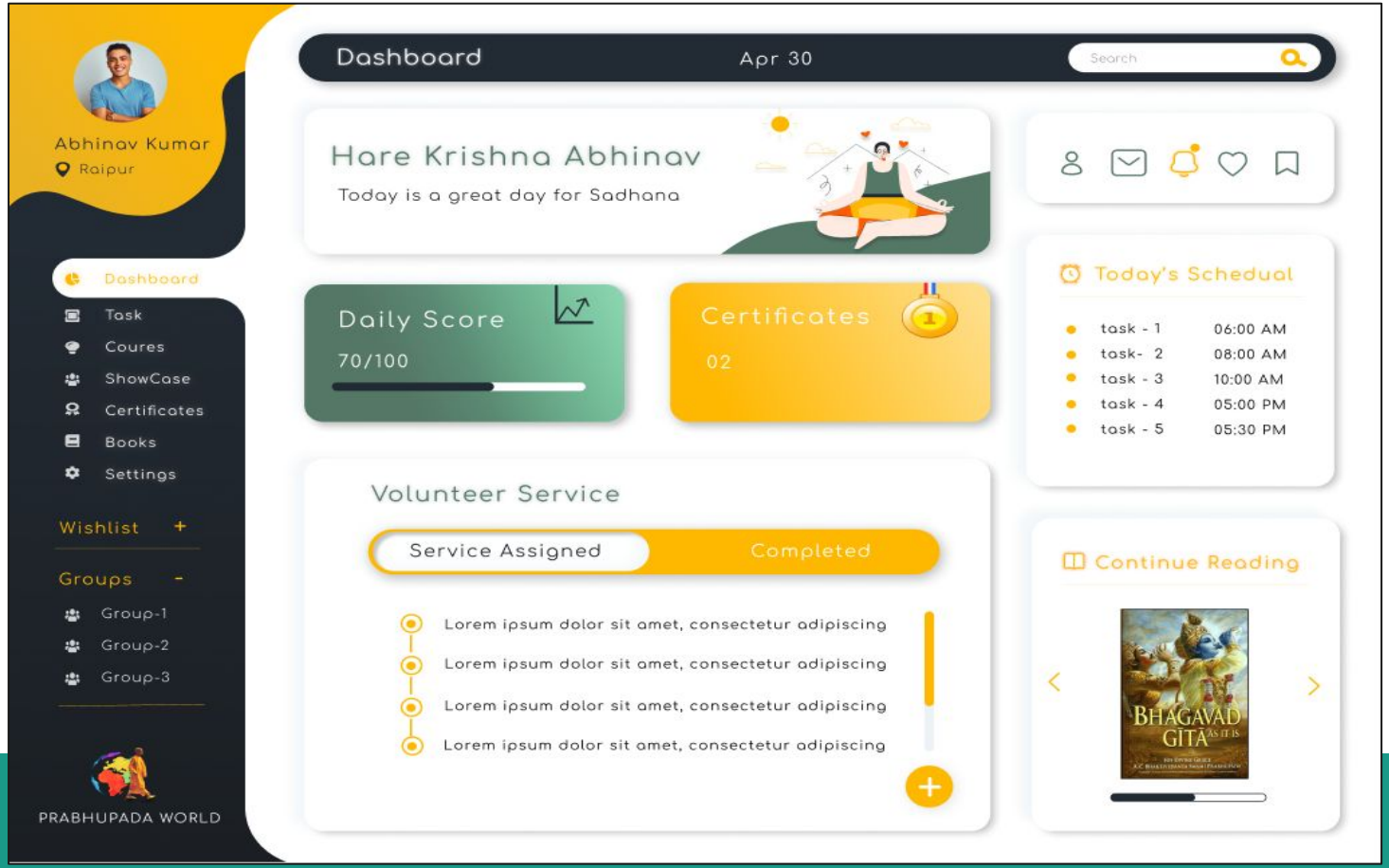
Role & Responsibilities

Web development

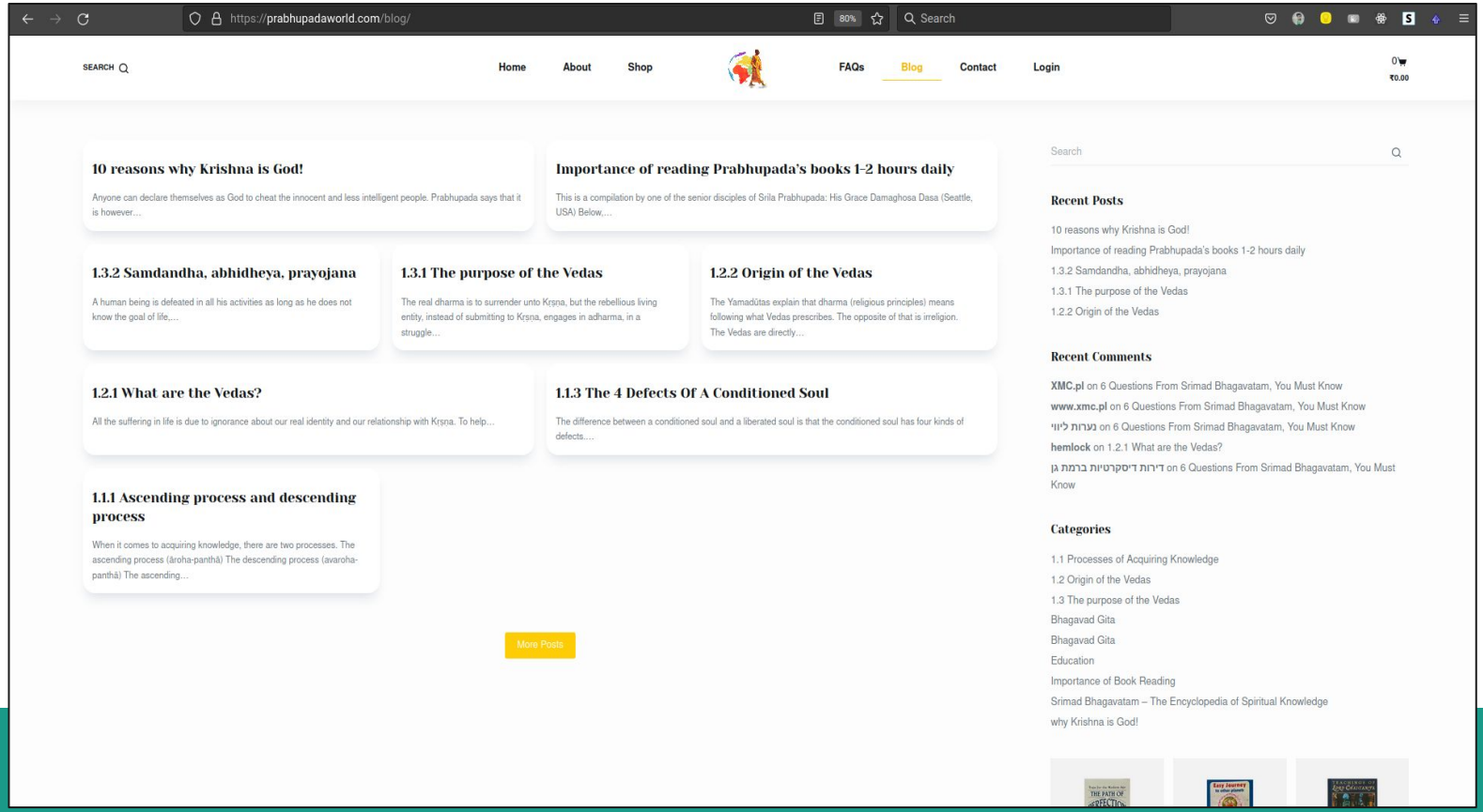
- Design web pages on figma
- Code the web pages using HTML, CSS and Javascript
- Maintain and update websites
- Test applications for websites
- Troubleshoot website problems

Web scraping

- Scrape the data from their blogging website and products website and upload it on excel sheet.
- Data such as product id, image, price, how many users buy that product, comments etc.
- Working with web scraping using python's libraries such as beautiful soup, selenium, request, pandas etc.



User dashboard page made by me



Blog page design by me

Internship Completion Certificate

Skills

Some of the courses I did during the summer internship period using YouTube

- Socket programming
- Arduino
- Serial communication between arduino and python
- Computer networking

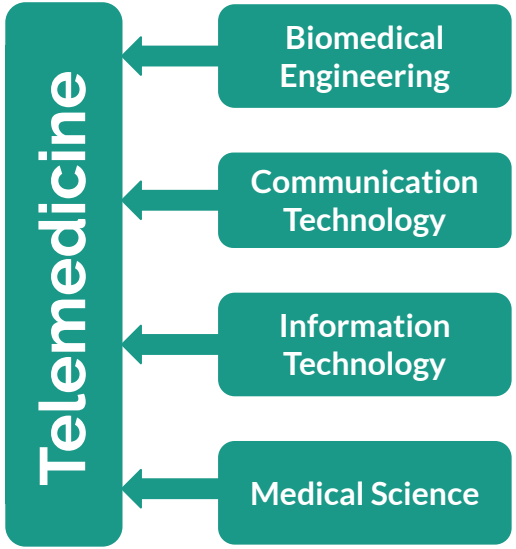
- Good looking UI creation
- Static website development using HTML and CSS
- Wordpress
- Product management in wordpress
- Scraping data from websites using Python, Pandas, Selenium, Beautifulsoup etc.

How to use skills set in the Biomedical field ?

Telemedicine

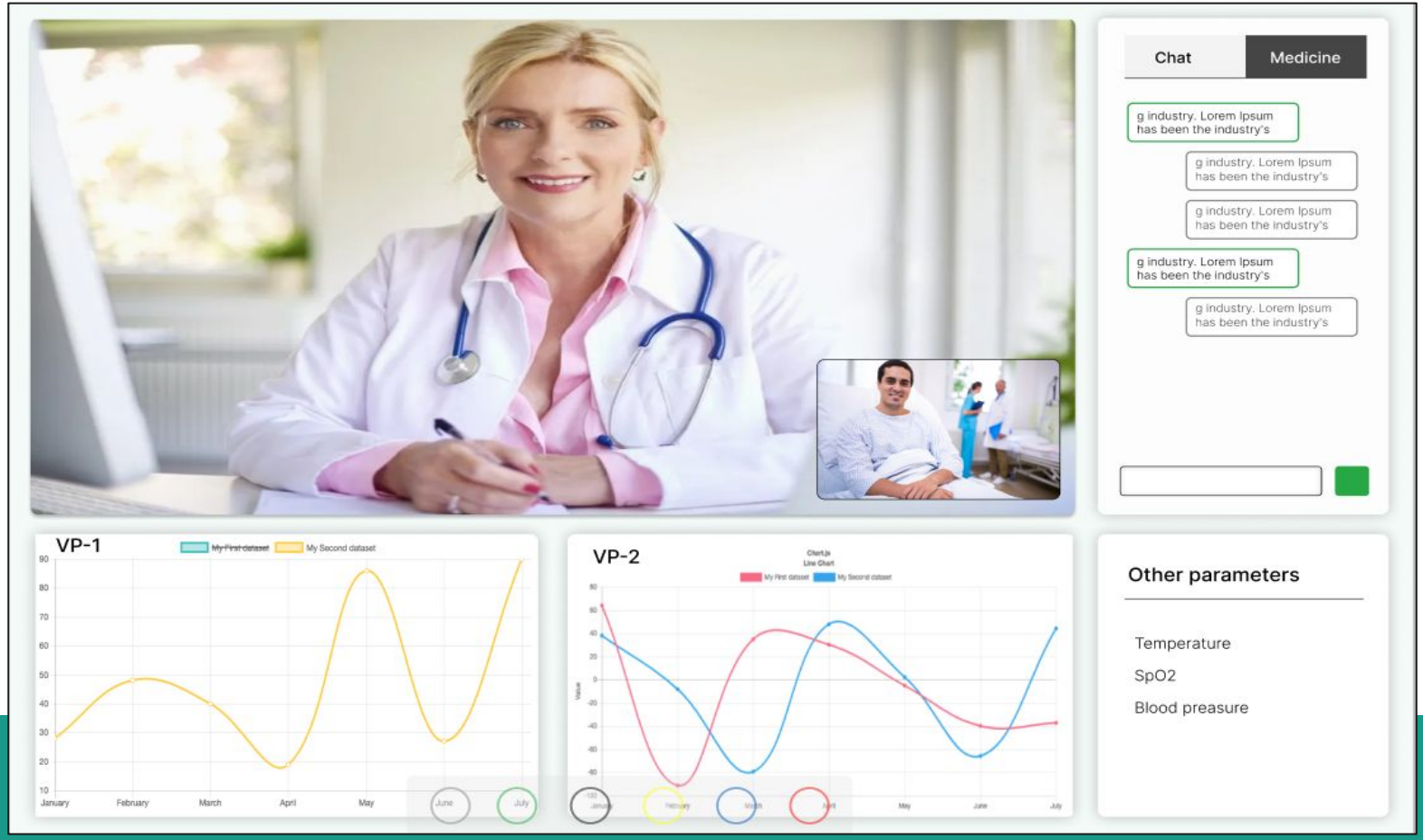
Telemedicine

Telemedicine, also referred to as telehealth or e-medicine, is the remote delivery of healthcare services, including exams and consultations, over the telecommunications infrastructure. Telemedicine allows healthcare providers to evaluate, diagnose and treat patients without the need for an in-patient visit. Patients can communicate with physicians from their homes by using their own personal technology or by visiting a dedicated telehealth kiosk.



Project Overview: Telemonitoring and consultancy system

- ➔ A virtually conferencing room for the doctor and the patient.
- ➔ patient can send live vital to doctor anytime anywhere to doctor, and doctor can easily diagnose and prescribe medicine to the patient.
- ➔ The patient must be connected to a device to take medical parameters.
- ➔ This app can to some extent eliminate the need to visit the doctor just for routine tests and can be very helpful for patients who need more regular tests and consultations.



Telemonitoring and consultancy system

Features

- **Web development**: HTML, CSS, Javascript, Flask
- **Database** - MongoDB
- **Computer networking concept**: UDP and TCP/IP servers, SocketIO, RTP, Multiplexing etc.
- **Machine learning**
- **Arduino**

- Patient or doctor can register or login in this application
- Patient's medical history tracking system
- Video conferencing between Patient and Doctor
- Taking patient vital data(Temperature, Heart Rate and Blood pressure) using arduino
- Real-time Patient vital parameters sharing in teleconference
- Medicine recommendation system
- User login, registration and authentication system

The End
Thank You