Project Proposal

Project Title: Snipt Itz

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Introduction:

Most of the calendars and planner apps available today only display a schedule that the user has manually prepared. Providing the user with an optimized itinerary does not provide any intelligent scheduling or schedule optimization functionality to help the user manage their day. We suggest creating an intelligent day planner application for our project, which offers an optimized schedule for the user, taking into account different limitations such as costs, appointment times and the stylist the customer needs.

By creating a Snip Itz software, we will create a web-based application to help potential customers schedule appointments, learn more about the company, and have people engage with the Savvy Salon.

Issues:

Issues Savvy salon is having;

- When a customer makes an appointment, they can pick a specific stylist and get auto-assigned to the salon owner. This causes time conflicts and unfair commission opportunities.
- The owner has to spend at least an hour before work everyday making sure all the appointments are set up and don't overlap.
- There is very limited use of the Facebook face and its features.
- They had a significant upfront cost with their previous domain owner and now have to pay a monthly subscription fee.
- The customers can't cancel their appointments, the owner has to go in manually and discard an appointment when canceled. There are a lot of problems that cause this business to lose time and money.

       A. **Business Value:**

This web application would better fit the needs of hair salons attempting to schedule their appointments to optimize efficiency. This will allow new stylists to get more customers while still allowing existing stylists to schedule with their known clients easily. This will also allocate enough time depending on how long each appointment will take. Creating a web server for Savy, with the features added, will have a lot of customer engagement.

Deliverables:
- Provide an application that will give the daily schedule best to fit the needs of the stylist and client.
- Optimize work schedules by working with the new stylist and new clients into the schedule.
- Allocates enough time for each appointment to accommodate each client's needs.
- Provides users access to the schedule for all those who need it and confirms when an appointment is made.

   B. **Solutions:**
   - Creating software that allows for more flexible scheduling
   - Creating software that minimizes user interaction and input
   - Creating software that is reliable and relevant to the customer needs
   - Keeping personal brand and style unique and intact
   - More user control through the owner
   - More software uptime (not hosted by customer hardware)

Target Customers:
- Hair salons
- Any currently existing business requiring scheduling
- Individuals planning on starting a business which will require scheduling
- Businesses that need flexible scheduling
- Events requiring scheduling

Tool:
The following tools will be used to design the software
   1. HTML (Front-end) - The process of creating HTML and CSS for a website or web application so that a user can see and communicate with them directly is front-end web development, also known as client-side development.

For that reason, we will use HTML to code the website.

2. CSS (Front-end) - With an emphasis on form, CSS stands for Cascading Style Sheets. HTML is used to structure a web page that describes headlines and paragraphs and enables images, videos, and other media to be inserted.
   For that reason, we will use CSS to style the website.

3. Java (Back-end) - For most back-end development projects, including those involving big data and Android development, Java is used as the server-side language. Desktop, other mobile, sports, and numerical computing often typically use Java. We will be using Java spring as well, which is Spring is a Java framework for businesses. It was intended to simplify Java EE's development and make developers more efficient. To facilitate good software coding practices and speed up development time, Spring uses Inversion of Control and Dependency Injection.
   For that reason, we will use Java for desktop computing.

4. MySQL (Database) - MySQL is a SQL-Structured Query Language-based relational database management framework. It is used for data warehousing, e-commerce, and logging. However, the most common use of MySQL is for a web database. Then we will use an API, which is low-level access, using either the classic MySQL protocol or the X Protocol, to MySQL tools. You can link and execute MySQL statements from another language or environment using connectors and APIs.
   For that reason, we will use MySQL to log in data applications in the web database.

Cost:

We will be using the AWS server for hosting the project since it's a $0 cost to keep the server running within a certain amount of data limit. AWS comprises so many different products and services for cloud computing. Servers, storage, networking, remote computing, email, mobile creation, and security are all supported by the highly profitable Amazon division.

Software Features:
● Being able to schedule an appointment as a request rather than automatically creating the appointment without confirmation of the stylist.

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- Having a drop-down menu of all the stylists and, if no preference, the most available stylist will auto-assigned.
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- Visual display of a calendar with unrestricted hours of each stylist.
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- Being able to customize the display and interface for user ability.

- Sending text/ email confirmation to the stylist when a customer requests an appointment.

The Team:

We have two people working on the back-end, and we have one person working on the front-end and another on the database. One of the back-ends also has databases, and the other in the front-end. It will be easy for us to communicate and divide work, making the process organized and simple.

Simron Dhali:
Major is Information system development
Minor in Business Administration. Strengths are the following:
Database using MySQL | Front end using HTML | Project management

Alex Haag:
Major: Computer Information Systems
Database using MySQL | backend using Java | Front end using HTML

Ryan Menas: Strengths are Java, system modeling, project management
Major: Information Systems Development/Analyst Minor in Business Admin

Carter Trowitch: Backend using java, helping with ideas for the front
Major: Information Systems Development/Analyst