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Error No More,
Innovation Forever

PROBLEM STATEMENTS



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Problem Statement:

To show number of unique visits on a product spread across different ecommerce store in Wordpress, Magento and Shopify

Domain:

Retail

Project Space:

Web, Cloud

Technology Requirements:

Ecommerce Stores:

Wordpress, Magento, Shopify

Event Processing System:

As per choice

Architectural Diagram:





Terminologies:

- EP System: Event Processing System
- Ecommerce Stores: Web storefronts selling retail products

Details:

- There are 3 Ecommerce Stores running on the Web having same products.
- When a customer visits the Product Page of any store, an event is sent to the EP System indicating a hit for that product.
- In return the EP system provides number of unique visits for that Product across all stores.
- There would be a threshold set in the EP system and if breached a Banner indicating number of unique visitors is to be shown on the Product Page of the respective stores
- The Ep system should have the following:
 1. Dashboard for visitors across all Ecommerce Systems.
 2. Visitors count per store.
 3. Store-wise visitor count for Product.
 4. Current Set Threshold



SmartHire: A Next-Generation Hiring Platform

Problem Statement:

The traditional hiring process can be time-consuming and inefficient for both job applicants and recruiters. Applicants are often required to manually apply for multiple jobs and recruiters must sift through numerous resumes to find suitable candidates. It involves a lot of manual work and is often time-consuming and expensive. Sorting through numerous applications and resumes can be overwhelming, and sometimes candidates with the right qualifications are overlooked. This can lead to missed opportunities for both parties and a lack of diversity in the hiring process.

Drawbacks of the traditional process include:

- Traditional hiring processes can take an average of 42 days to fill a position, resulting in longer hiring cycles and increased costs. (Source: Society for Human Resource Management).
- Manual filtering of applications is time-consuming and prone to human errors and bias, with recruiters spending an average of 23 hours per hire on manual screening. (Source: Glassdoor).



SmartHire: A Next-Generation Hiring Platform

Drawbacks of the traditional process include:

- A poor candidate experience can lead to negative reviews and deter future applicants. About 60% of job seekers report a negative candidate experience. (Source: Talent Board).
- Poor hiring decisions can result in costs of up to 30% of the employee's first-year earnings, including recruitment and training costs. (Source: Society for Human Resource Management).
- Lack of transparency and feedback in the hiring process can lead to a poor candidate experience, with 83% of candidates reporting that a negative interview experience can change their opinion about a role or company. (Source: LinkedIn).



SmartHire: A Next-Generation Hiring Platform

Solution Expected:

A web-based application that simplifies and automates the hiring process by allowing applicants to create detailed profiles with all their relevant information and recruiters to post jobs and filter through the applicants based on their eligibility criteria. The app uses machine learning algorithms to match the best candidates for the job and provide recruiters with a list of top candidates, eliminating the need for manual filtering of applications.

The proposed application aims to simplify the hiring process by offering the following features:

- Job seekers can upload their resumes and create profiles with their personal information, education, work experience, skills, certifications, test scores, and other relevant information.
- The app will automatically extract information from the applicant's resume. This will eliminate the need for manual input, resulting in a smoother and faster application process for both recruiters and applicants. There should be no need for entering the details manually (for applicants) except for rectifying the information extracted from the resume.



SmartHire: A Next-Generation Hiring Platform

Solution Expected:

- Recruiters can create job postings with the eligibility criteria, job description, required skills, responsibilities, salary and set the duration of the job posting. The job postings should NOT be visible to the applicants.
- The app uses machine learning algorithms to match the best candidates for the job based on their eligibility criteria and generate a score called 'Job Fit Score' or JFS for each applicant for each job posting.
- The application should have subjective questions that candidates need to answer, eliminating duplicate applications.
- If there is a tie between two candidates, the app will consider additional criteria such as subjective questions, experience, and other relevant factors.
- To further improve the UX, the app should provide feedback to candidates on their application status, improving the candidate experience. It should also let them know about what skills they are missing, what skills are in high demand, salary statistics, why they didn't get shortlisted for a certain job posting, etc.



SmartHire: A Next-Generation Hiring Platform

Solution Expected:

Core Features:

1. Automatic resume parsing to extract relevant information.
2. Job Fit Score (JFS) generation using ML algorithms based on applicant's education, work experience, certifications, test scores, skills, activities, hobbies, voluntary activities, and co-curriculars.
3. Suggested applicants list for recruiters based on JFS and eligibility criteria.
4. Secure storage and handling of sensitive data.
5. Optional feedback mechanism for applicants to improve their profiles.
6. In addition to the core features, the application can have endless opportunities for expansion and customization. The possibilities for additional features are only limited by your imagination.

Remember:

The ultimate objective of this project is to enhance the efficiency of the recruitment process by reducing the time required by both the recruiters and the applicants.



Eppo: Appointments Made Easy

Problem and Expected Solution

Description:

Eppo is a platform that offers a contactless solution for booking physical appointments with professionals such as doctors, lawyers, therapists, barbers, and more. However, long wait times, scheduling conflicts, and inefficient appointment management can create frustration for clients and professionals alike.

To address these issues, Eppo is looking for a solution that will enhance the platform's features and user experience. Specifically, the solution should:

- Improve the efficiency of appointment booking and management for professionals
- Reduce wait times and scheduling conflicts for clients
- Incorporate a recommendation system to suggest professionals to clients based on standard parameters
- Use blockchain technology to ensure the security and transparency of all transactions and interactions on the platform

Developers are encouraged to use their creativity and practical assumptions to enhance these features further. The solution should be designed to address the concerns of clients and professionals in the wake of the COVID-19 pandemic, providing a safe and secure platform for physical appointments.



Eppo: Appointments Made Easy

Few Possible User Stories:

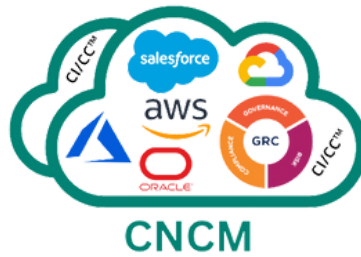
- As a client, I want to easily search for professionals based on my needs, location, and availability so that I can find the right professional to meet my needs.
- As a professional, I want to be able to create my business profile, manage my availability, and receive appointment requests so that I can efficiently manage my schedule and grow my practice.
- As a client, I want to be able to book appointments online and receive virtual queue updates so that I can minimize wait times and manage my time effectively.
- As a professional, I want to be able to view my appointment requests, manage my schedule, and receive notifications of new bookings so that I can stay organized and provide the best service to my clients.
- As a client, I want to be able to rate and review professionals based on my experience so that other clients can benefit from my feedback and professionals can improve their services.
- As a professional, I want to be able to view my ratings and reviews, respond to client feedback, and improve my services based on client feedback so that I can grow my practice and provide the best possible service to my clients.



Eppo: Appointments Made Easy

Few Possible User Stories:

- As a client, I want to be able to receive recommendations for professionals based on my preferences, ratings, and availability so that I can find the best possible match for my needs.
- As a professional, I want to be able to receive more appointment requests based on my ratings, reviews, and availability so that I can grow my practice and expand my client base.
- As a client, I want to be able to securely and transparently book appointments, make payments, and view my transaction history so that I can trust the platform and use it for my future appointments.
- As a professional, I want to be able to receive secure and transparent payments, view my transaction history, and receive notifications of new payments so that I can trust the platform and focus on providing the best possible service to my clients.



EHR: Electronic Health Record

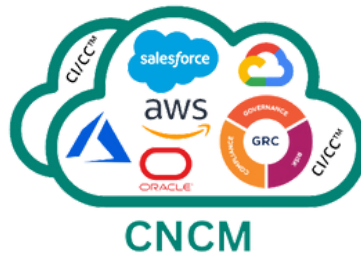
Introduction:

The healthcare system can be complicated and stressful for patients. One problem they often face is managing their medical records and sharing them with their doctors. We want you to develop a web or mobile application that can make it easier for patients to store, manage, and share their medical records.

Requirements:

Your application should have the following features:

- **User-friendly Interface:** Your application should be easy to use and accessible to patients of all ages and technological abilities. This means that the design and layout should be simple and intuitive.
- **Secure Storage:** Patients should be able to store their medical records securely, without any fear of their data being stolen or misused. Make sure that your application is compliant with all relevant data protection regulations.
- **Record Management:** Your application should allow patients to enter and manage their medical history, diagnosis, treatment, and medication details. Patients should also be able to upload medical reports, prescription details, and other relevant documents.



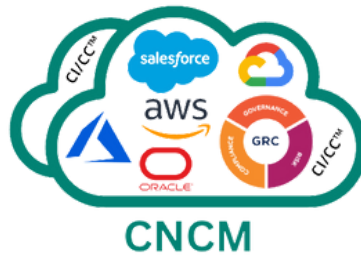
EHR: Electronic Health Record

Requirements:

- **Record Sharing:** Patients should be able to share their medical records with doctors or healthcare providers of their choice. Your application should have features to control the level of access given to doctors, such as viewing or editing permissions.

The flavor of Blockchain:

In addition to the above requirements, we encourage you to incorporate blockchain technology into your application. Blockchain can provide a tamper-proof and decentralized way of storing medical records, ensuring that patient data is secure and cannot be modified without permission. It can also enable patients to have more control over their data and decide who has access to it. Furthermore, blockchain can facilitate secure and transparent sharing of medical records between patients and healthcare providers, potentially reducing duplication of tests and improving overall healthcare efficiency. You can explore various blockchain-based solutions, such as using smart contracts, decentralized storage, and private key encryption to enhance the security and privacy of the patient data. We believe that by leveraging blockchain technology, your application can provide a more innovative and effective solution for managing electronic health records.



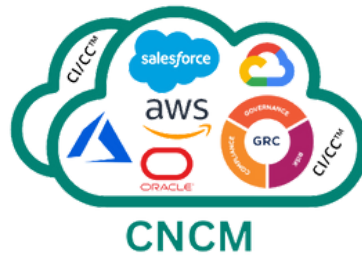
EHR: Electronic Health Record

The flavor of AI (Optional)

we encourage you to consider leveraging the power of artificial intelligence (AI) in your application. AI can help patients better manage their medical records by automatically analyzing and categorizing their data. For instance, natural language processing (NLP) can be used to extract relevant information from medical reports, such as diagnosis and treatment details, and add them to the patient's record. Machine learning algorithms can also be used to provide personalized recommendations to patients based on their medical history, such as suggesting preventative measures or lifestyle changes. Additionally, AI can assist doctors in diagnosing and treating patients by providing them with relevant information and insights from medical records, potentially leading to better outcomes. By incorporating AI into your application, you can provide a more advanced and intelligent solution for managing electronic health records, ultimately improving patient care and outcomes.

Expectation:

We expect you to develop a working MVP. Your application should be user-friendly, secure, and compliant with all relevant data protection regulations. We encourage you to think outside the box and come up with innovative solutions that can improve the patient-doctor experience.



EHR: Electronic Health Record

Conclusion:

Your application should help patients manage their medical records and share them with their doctors easily and securely. It should ultimately lead to better patient outcomes by improving diagnosis, treatment, and reducing medical errors.



VERBWIRE

Problem Statement:

Create a simple application that uses Web3/blockchain technology to provide social good.

Example Ideas:

1. A fundraising app that mints memorable images as NFTs, for donors to support a social cause
2. A simple app that uploads images of rural communities to IPFS (decentralized storage) for security surveillance
3. A simple app that uploads images of farmers' crops to IPFS (decentralized storage)
4. A simple app that mints examination IDs of students to the blockchain using NFTs
5. A simple app that stores unique IDs of endangered species, being kept in a conservatory, in an NFT
6. A smart contract that enables a small business to mint tokens for customers who recycle

Hints:

- [Mint NFT from image](#)
- [Upload a local file to IPFS](#)
- [Mint NFT from metadata](#)
- [Quick mint Omnichain NFT from image](#)



VERBWIRE

Quick Start Resources:

1. Our Quick Start guide is available here:

<https://docs.verbwire.com/docs/verbwire-quickstart-guide>

2. Our API documentation is here:

<https://docs.verbwire.com/reference/getting-started-with-your-api>

3. Three sample tutorial projects are available here:

<https://github.com/verbwire>

4. Multiple community projects, with source code, are available here:

<https://www.verbwire.com/community>

5. Sample recipes (simple steps to do tasks with our API) are available here:

<https://docs.verbwire.com/recipes>

6. Please join our discord community and ask any questions 24/7 here:

<https://discord.com/invite/hx8XqdcPB2>



VERBWIRE

Submission Policy:

1. The project must have implemented the Verbwire API.
2. The project should mention the use of the Verbwire API on their submission page.
3. The source code should be in a public repository on GitHub with instructions. There must be a clear description of the working of your application in the README file. Add the relevant links of the working app to the README file too.
4. Include the GitHub link of your publicly visible source code in your submission. Projects with broken links will be disqualified.
5. Verbwire reserves the right to feature your project and code on its website and marketing materials.
6. Create a short video demo of your application and upload to YouTube or any video sharing site. Make sure that any person watching the video is fully able to understand what the app does and what its functionalities are. Share the link on your Devfolio/Devpost submission.
7. Judging will be done by the Verbwire team based on submissions on Devfolio/Devpost, post the hackathon.
8. Award of prizes will be at the Verbwire team's discretion and subject to the project meeting a minimum bar of quality. Prizes will be announced and disbursed within a couple of days after the hackathon.