

PROJECT SYNOPSIS/PROJECT CONCEPT DOCUMENT

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DESCRIPTION

Creating a Global clinical trials registry data platform: collect the data from 17 different registries, build web scrapers and convert extracted data into a simple JSON format using data transformation scripts and make them available for performing different operations like Login, search, compare, discover, analyze amongst clinical trial records.

PROFILE OF USERS

- Researchers: Researchers need bulk data and data comparisons.
- Apothecaries: They will update the information related to the latest medicines (The page should be dynamic to get updated on the latest trials)
- Medical companies: They need data relevant for their production of vaccines, medicines. (can be implemented using filters)
- Doctors: They can update the information related to the latest trials and also gather the information related to the trials, vaccines, and medicines
- Colleges: They need trial data useful for teaching students.
- Students: To do research on trials they need data.
- Patients: They might not be literate so they might need pictures to demonstrate data.

USAGE MODEL AND DIAGRAMS (IF ANY)

This model will be used by

- Doctors will be using this system for gathering information related to various diseases or clinical trials.

- Research students will be using this system for information related to clinical trials happening at the given time
- Patients with rare diseases will use this system for getting to know trials related to the disease and might try taking part in it.
- Medical companies will use this system to be updated on the approved vaccines/drugs/medicines and may be interested to manufacture them.
- Apothecaries will use this to get knowledge on ongoing trials.
- Institutions and Universities will use this to bring into students' notice about trials happening and may encourage them to research on these and increase awareness by encouraging them to keep campaigns.

The screenshot shows the VaidhyaMegha CLINICALTRIALS website. The header includes the VaidhyaMegha logo and the text 'CLINICALTRIALS' in orange. A navigation bar on the left lists: Dashboard, Access, Analyse, Search, Discover, Compare, COVID-19, TBI, Neoplasms, Diabetes, About, and Contact. The main content area has a dark blue header with the text: 'Clinical Trials are executed across the globe and several trial registries, including primary registries (as classified by WHO in their registry network), exist today.' Below this is a 'Welcome!' section. A paragraph states: 'csdlc.org aims to collect data from all trial registries across the globe and provide below features :'. This is followed by a bulleted list of features:

- **access** to all trials registered anywhere. ex: trials registered in [clinicaltrials.gov](#) can be accessed [here](#).
- **full text search** on registry records. ex: if you are searching for a topic, say balloon sinoplasty, try [this](#) search. (NOTE: Search results can be bookmarked to quickly look at updates.)
- **discover** additional information about a trial ex: a trial may be registered in 3 trial registries globally where it is assigned different ids along with several other internal/external ids. Here's an [example](#).
- **compare** two trials using their registry ids
- **analysis** of trials ex: try the geo-visualization of trial counts across countries [here](#) and
- **learning** from previous trial's design and their outcomes.

 A paragraph follows: 'These features are aimed to help avoid inefficiencies in trial selection, design and execution which might eventually lead to redundant and/or failed trials wasting - money, resources, time and effort.' Another paragraph states: 'Further we have built ML models which are available through APIs. They are aimed at :'. This is followed by another bulleted list:

- Identifying risk associated with a study design by predicting if the trial would fail to complete
- Finding trials that are similar to a new/existing trials. Thus allowing cross learning from past/ongoing trials and innovate faster.

 A paragraph then says: 'csdlc.org is part of a suite of sites focused on making open datasets from clinical research, health care and related domains readily accessible.' A final note reads: 'NOTE: Please honor the data usage policies as prescribed by source registry sites.' On the right side of the dashboard, there is a 'COVID-19 Studies' section with a button that says 'View [listed clinical studies](#) related to coronavirus disease (COVID-19)'. Below this is a paragraph: 'VaidhyaMegha has put up a free web platform to interactively collect symptoms, Xrays, CTScans and/or any other reports or files at <https://linkd.in/exms2R4>. Please try it as needed.' At the bottom of the page, there is a footer with 'Vaidhvamegha' on the left, and 'Useful Links', 'Our Services', and 'Our Newsletter' on the right. A chatbot bubble in the bottom right corner says 'Hello! COVID-19 assessment bot'.