BUILD WITH INDIA 2025



Idea / Track Title: Chikitsāi

Theme: Health Care

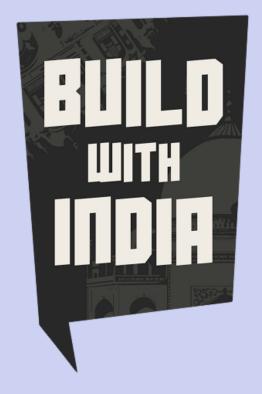
PS Category: Software

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- Kamalsundar



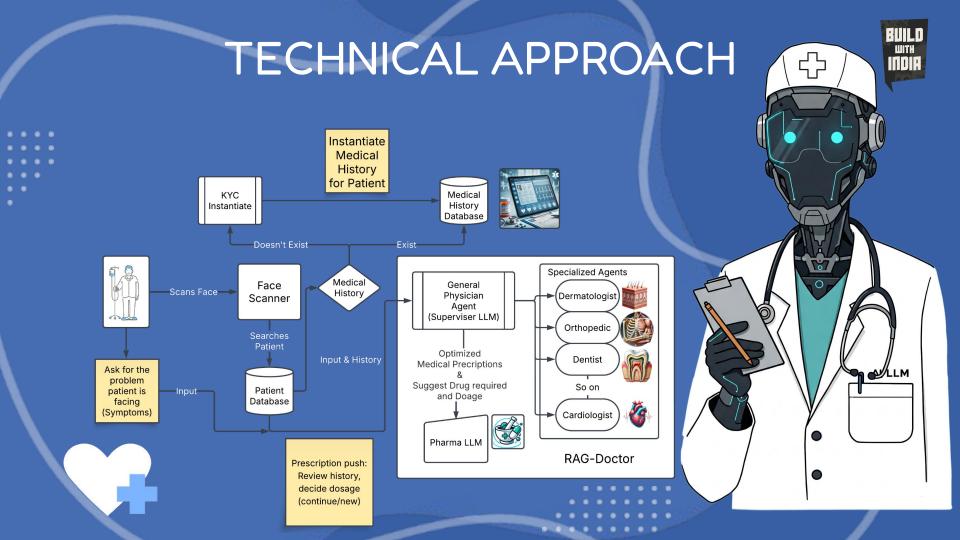


Chikitsāi

Building ReAct agents to help doctors in the health care center.

- Al-powered hospital assistant orchestrating doctor agents.
- Uses patient history, symptoms, and reports to suggest specialists.
- Supervisor agent assigns queries to appropriate doctor agents.





Prototype Output

ozmzed, zej						
Face recog	nized as	test	patient	with	simi	larity
Connected	to Postgi	reSQL				

Face registered for patient test patient

ending context
Alme: supervisor Siven the patient's symptoms of a stomach ache and fatigue, and considering their current medication for wheezing, I'd like to consult with the gastroenterology agent to explore obtained causes and interactions. STOOL Calls: transfer_to_gastroentologist (f7c29a48-54eb-4135-ac8a-49d23dddf4e0) Call ID: f7c29a48-54eb-4135-ac8a-49d23dddf4e0 Args:
Hame: transfer to gastroentologist Successfully transferred to gastroentologist Successfully transferred to gastroentologist
lame: gastroenterologist am a gastroenterological expert. I will use my knowledge and the provided tools to assist in diagnosing the patient. I will start by collecting information about the possible auuses of a stomach ache and fatigue. fool Calls: rag_context (2d1f0da8-e2f5-4fdb-a8c1-046f8e39898d) Call ID: 2d1f0da8-e2f5-4fdb-a8c1-046f8e39898d Args: input: causes of stomach ache and fatigue
alame: rag_context lastrointestinal medications (e.g. sulfasalazine). Disorders of the gastrointestinal tract and peritoneum Gut and peritoneal disorders represent prevalent causes of nausea and vomit-ing. Gastric outlet obstruction often pr Intermittent symptoms, whereas small intestinal obstruction is usually acute and associated with abdominal pain. Disorders of gut motor activity (e.g. gastroparesis and ch Intermitation to prevalent tract and peritoneum Gut and peritoneal disorders represent prevalent causes of nausea and vomit-ing. Gastric outlet obstruction often pr Intermitation to provide the provided to provided the provided to provided the provided to provided the provided to provide the provided to provided
lame: gastroentologist Possible causes of stomach ache and fatigue include gastrointestinal disorders, gut and peritoneal disorders, gastric outlet obstruction, small intestinal obstruction, and Bisorders of gut motor activity. Given the patient's current medication for wheezing, it's important to consider potential medication side effects or interactions as well. I would Bisorders of gut motor activity. Given the patient's medical history, and conduct a thorough examination, including abdominal examination, and possibly order blood tests and stool tests to Bisorders of the patient's medical history, and conduct a thorough examination, including abdominal examination, and possibly order blood tests and stool tests to
ame: gastroentologist fransferring back to supervisor fool Calls: transfer back to supervisor fransfer back to supervisor
Angs.



Since I am a general physician, I can suggest some general advice. Ensure the patient stays hydrated, eats easily digestible foods, and gets enough rest. Since the patient is also on medication for wheezing, it's important to rule out any potential drug interactions or side effects contributing to the symptoms.

Feasibility and Viability

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- Uses existing AI with LLM models, making implementation practical.
- Can be integrated with hospital IT systems and EMR platforms.
- Integration with medical devices like ECG and SPo2 (future scope)



Secure encryption and access control mechanisms to ensure data privacy

Continuous model

refinement and validation with doctors to ensure reliability in Al suggestions

Impacts and Benefits





- Social Impact: Faster diagnosis and treatment, reducing patient wait times.
- Economic Impact: Optimizes doctors' time, reducing hospital costs.
- Medical Impact: Enhances diagnostic accuracy and improves patient outcomes.
- Future Benefits: Al-driven drug recommendations improve personalized treatment.