Team Red

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Problem

End-users require the ability to input data a

Web APIs using natural language. However, there is no standard

these features with existing Large Language Model (LLM) techno

reliance on the LLM, significantly raising the risk, which in

Problem Characteristics

CueCode

and trigger actions in systems through

dized framework for developers to build
ology. Current solutions place too much
turn hinders many organizations.

CueCode simplifies the process
opers can utilize this feature in
risks associated with othe

Solution Characteris

Solution

of converting natural language into Web API calls. Devel-
various ways, many of which help mitigate the business
r methods of using LLMs to generate Web API calls

stics

- There is no easy way to implement using NLP to parse user input for existing applications
- It is difficult to make LLMs aware of the structure of data expected from a natural language prompt

Innovative Features vs. Compe

Natural Language to API Call Conversion

CueCode: Offers seamless, real-time conversio put into structured Web API calls. The process ance on manual coding or technical expertise.

Competition: Many alternatives require either from developers or rely on less accurate interp guage, often resulting in errors or the need for setting.

Prototype M

CueCode leverages LLM techn
parse natural language into str
data to generate API calls, sim
the process of data entry.

etition

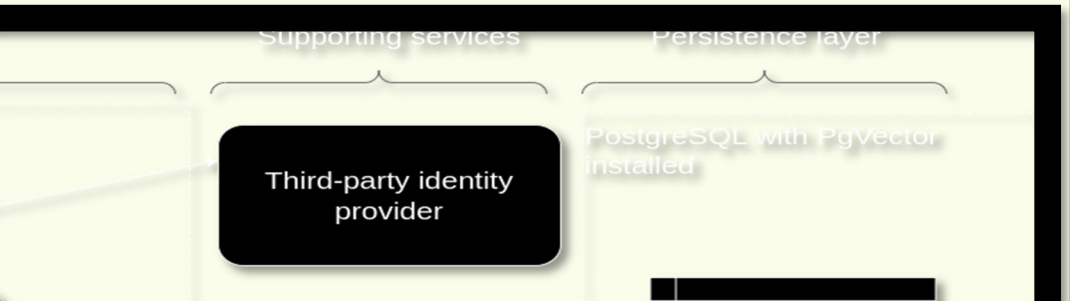
on of natural language in-
is intuitive, reducing reli-

r heavy technical input
pretation of natural lan-
r additional context-

M

Model	Features
Real World Problem	End-users need a w interact with Web A using natural langu but current tools ar efficient or insecur
CueCode Features	1. Natural Languag API Call Conversi
	2. Context-Aware A Mapping
	3. Security & Acce Control
	4. Multi-Language port
	5. Customizable Te plates
	6. AI-Powered Enh ments
	7. Real-Time Feedb & Error Handling
Context	Businesses and org zations are cautiou about adopting LL technology.

MFCD



F

- Natural Language to A
- User-Friendly Interfa
- Real-Time Feedback

nology to
uctured
plifying

MFCD for RWP

s	Context
vay to APIs uage, re in-e.	Businesses need to adopt LLM technology but face hesitation due to lack of control, risk, and complexity.
ge to on	Helps non-technical users interact with APIs without coding, reducing complexity.
API	Automatically selects the right API endpoint based on previous interactions.
ess	Ensures that only authorized users can perform specific API actions, mitigating security risks.
Sup-	Expands the reach of API interactions globally by supporting multiple languages.
em-	Developers can create reusable templates for efficiency and consistency.
nance-	Learns from past interactions to improve performance and reduce errors over time.
back	Provides instant feedback to users, increasing confidence and reducing errors.
gani-s M	Organizations looking for easy adoption of Web API interaction tools that improve security and user-friendliness.

Prototype Features

API Call Conversion

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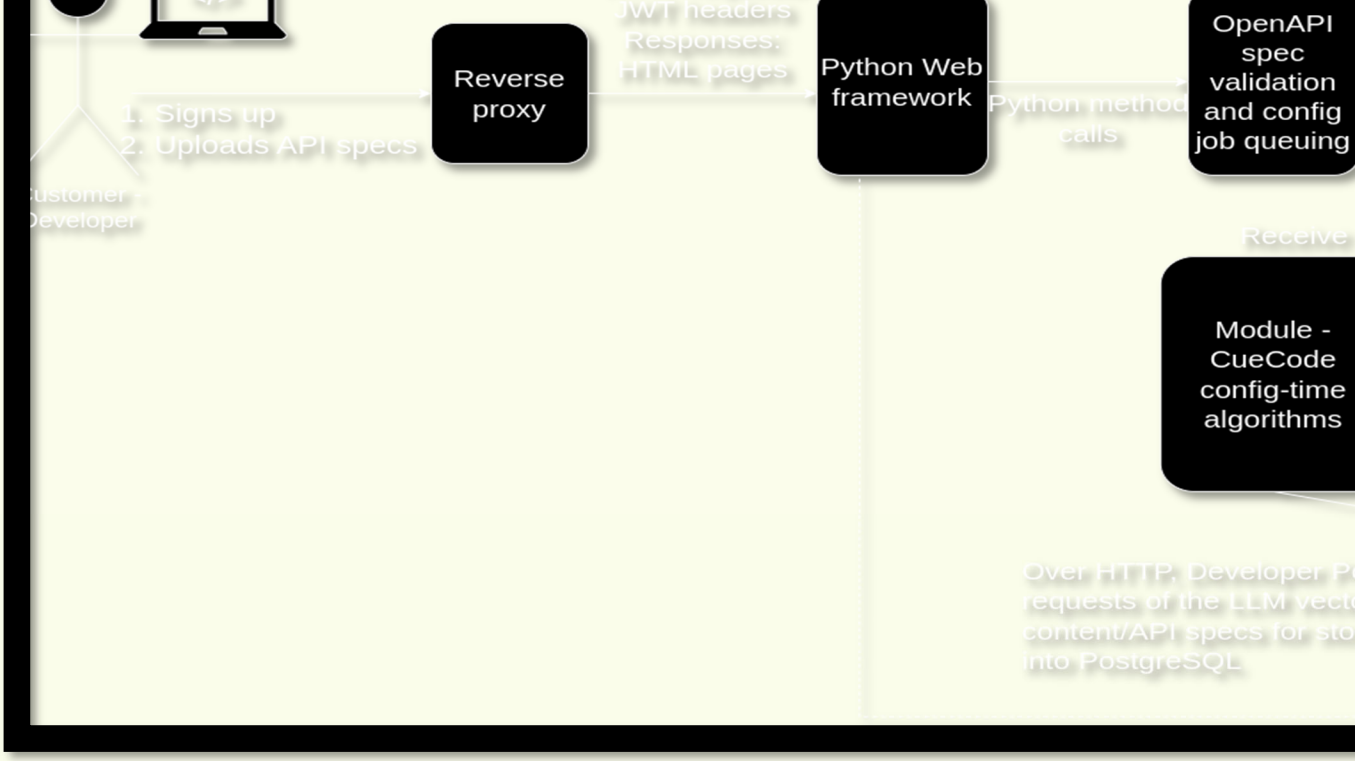


UI/UX Scr

What would you like t

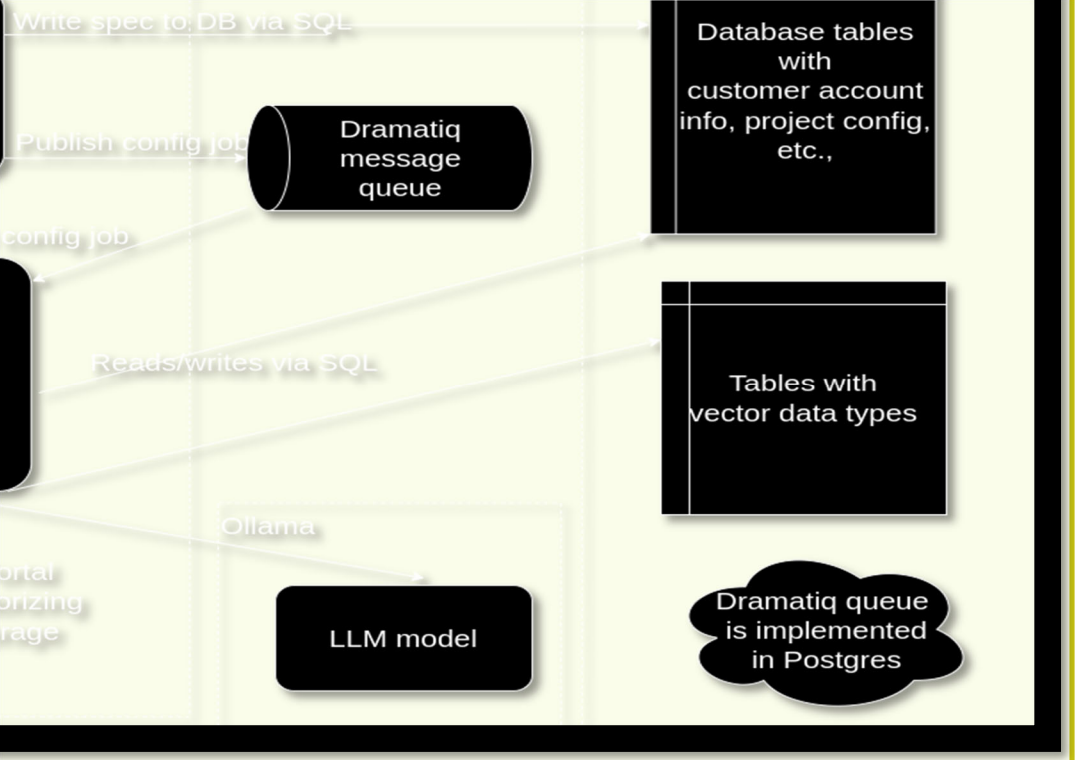
[Text input: "Fetch lates

[Auto-suggestions dropdown: "Get user list

Recent Queri

[1. Get user data from CRM] [2. F

Available APIs: [API List wi



- Security & Access Co
- Context-Aware Respo

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", "Retrieve report", "Fetch data"]

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etch product inventory]

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ith descriptions]

[Input Field: "Get d

Interpreting your r

[API call: GET /user

Suggested Parame

[Start Date: [Calen

[Execute Button] [S

ontrol
onses

data for all users from March 2025"]

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equest:

rs?start_date=2025-03-01&end_date=2025-03-31]

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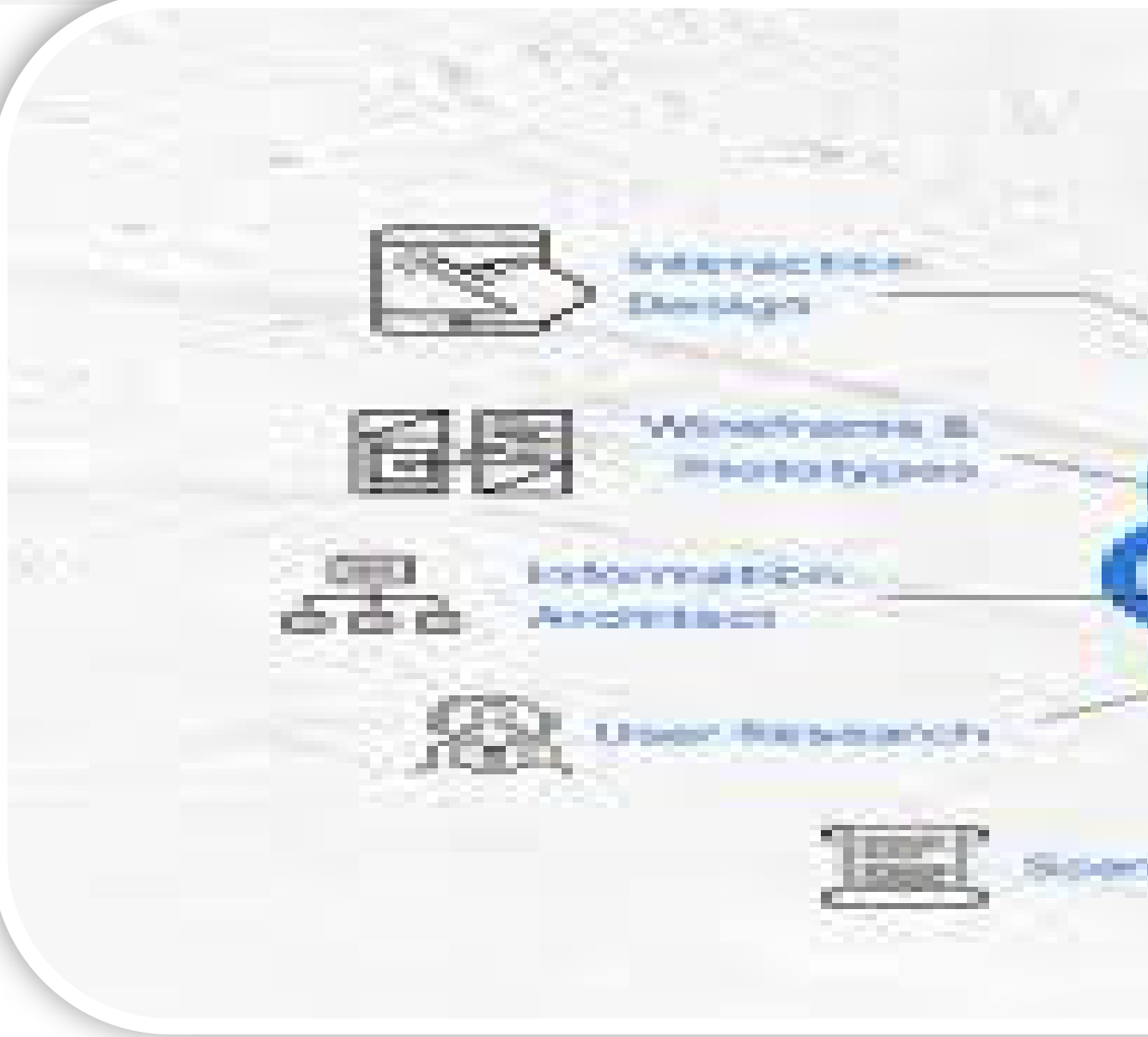
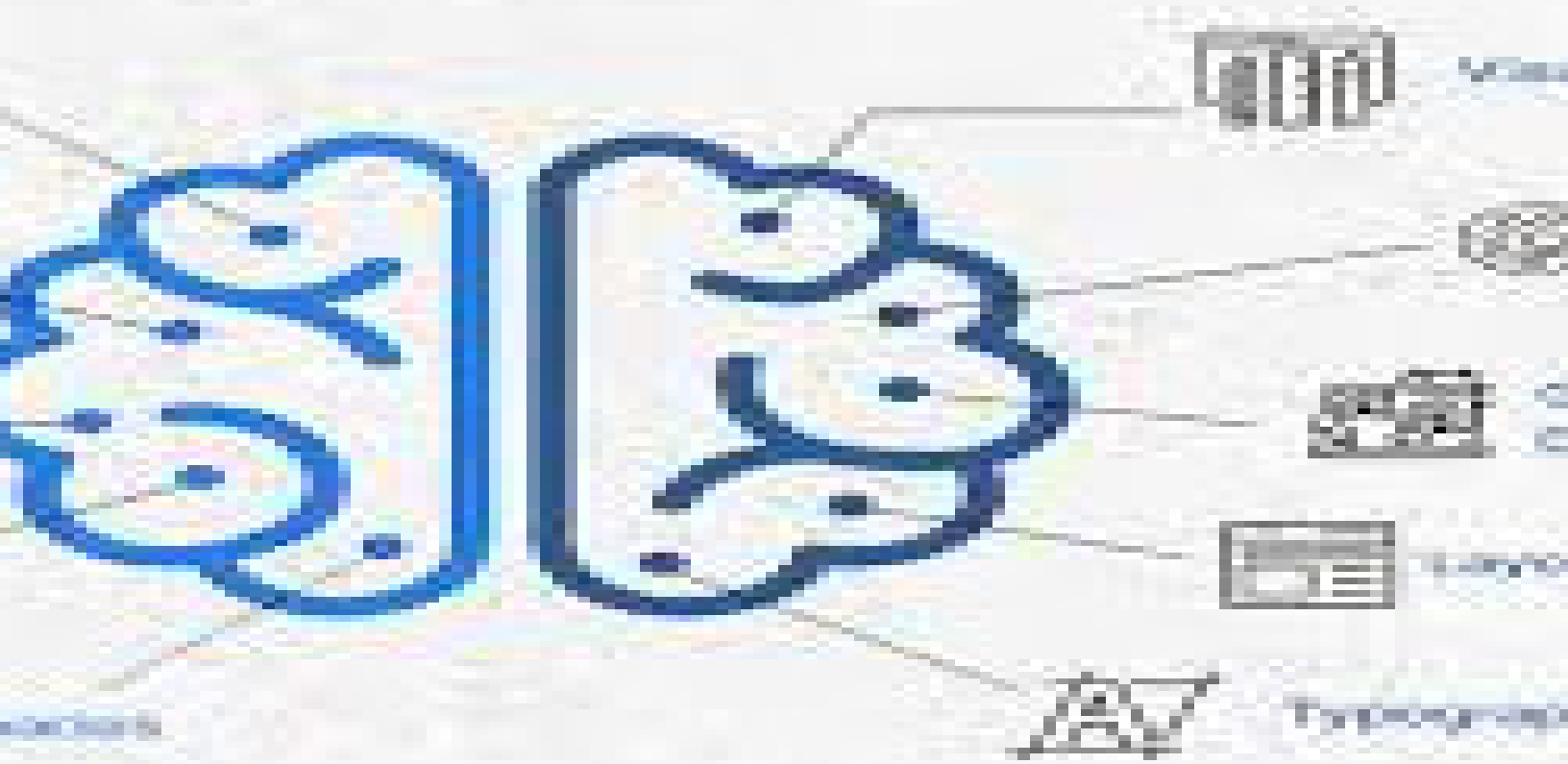
ters:

dar Widget] [End Date: [Calendar Widget]]

Save as Template Button]



UX & UI



https://john-hix.github.io/cuecode-website/