

MICHIGAN STATE

U N I V E R S I T Y

Alpha Presentation

Interactive Digital Assistant

The Capstone Experience

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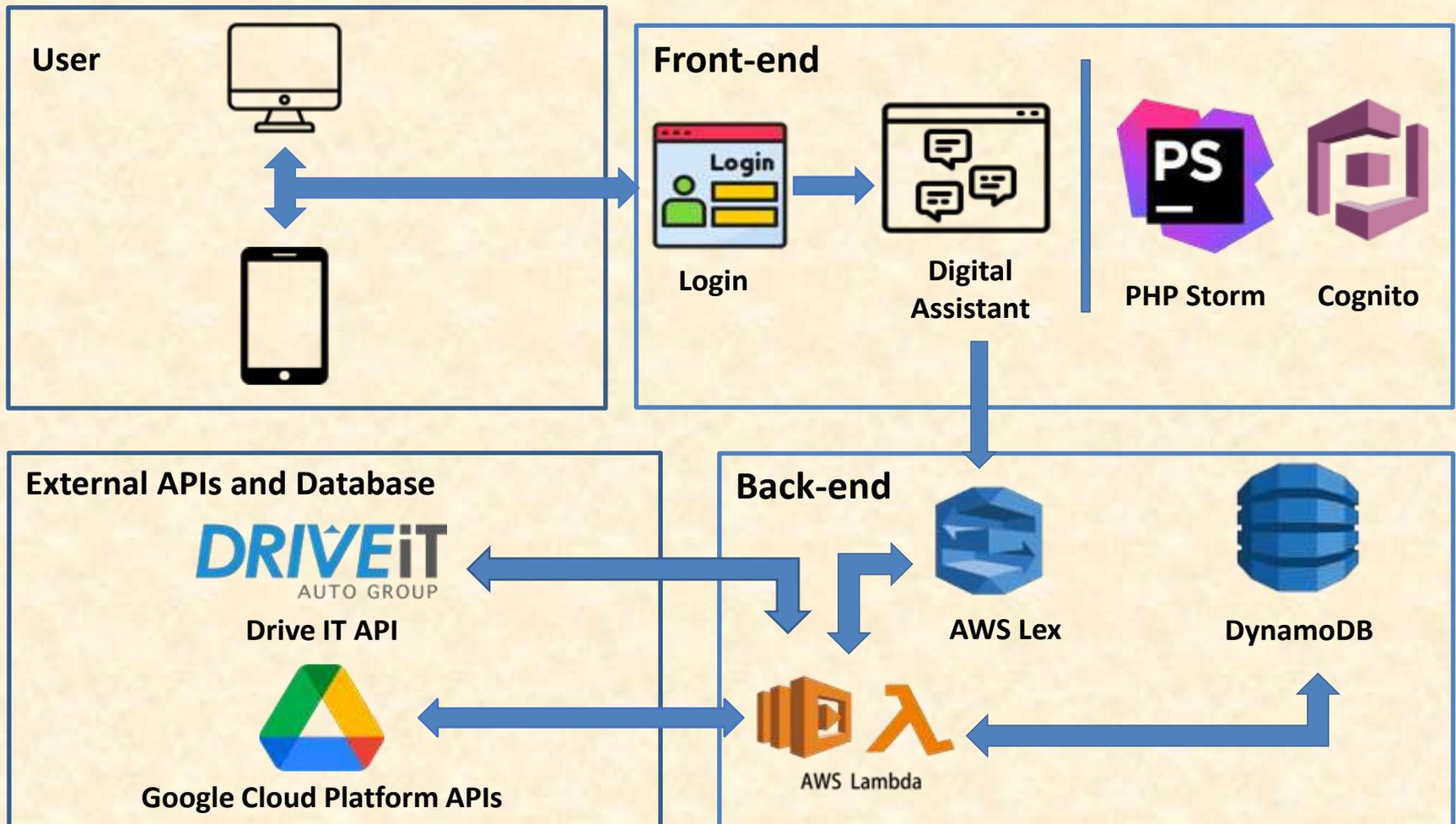
*From Students...
...to Professionals*

Project Overview

- Solves the problem of employees having to manually check the databases.
- Our project's purpose is to create a voice assistant that can respond to user's question
- Divide project contents by user's positions or identify which part of the project is responsible to the user's position.



System Architecture



Conversation - Guide

The screenshot shows a web browser window with the title "Interactive Digital Assistant" and the URL "d3cc08bf6f0n0p.cloudfront.net/index.html". The page has a red header with the text "Interactive Digital Assistant" and a hamburger menu icon on the left and a question mark icon on the right. The main content area is white and contains a chat interface. The chat history shows three messages from the assistant (in pink bubbles) and three responses from the user (in light blue bubbles). The first message is "Hello, Team Stellantis. How can I help you?". The second message is "What's the aspect you want to ask?". Below this message, there are four buttons labeled "SCHEDULE", "PROJECT", "INCIDENT", and "PLANT". The third message is "Do you want to be directed to ask incident? (Yes or No)". The user's responses are "help", "incident", and "yes". At the bottom of the chat area, there is a text input field with the placeholder "Type here or click on the mic" and a microphone icon on the right.

Interactive Digital Assistant

Hello, Team Stellantis. How can I help you?

What's the aspect you want to ask?

Aspects

SCHEDULE PROJECT INCIDENT PLANT

Do you want to be directed to ask incident? (Yes or No)

Type here or click on the mic



Conversation - Project

The screenshot shows a web browser window with the following content:

- Browser Tab:** Interactive Digital Assistant
- Address Bar:** d3cc08bf6f0n0p.cloudfront.net/index.html
- Header:** Interactive Digital Assistant (with a menu icon on the left and a help icon on the right)
- Initial Prompt:** "What's the aspect you want to ask? Schedule, Project, Incident, or Plant?"
- User Input:** "project"
- Assistant Response:** "Do you want to be directed to ask project?(Yes or No)"
- User Input:** "yes"
- Assistant Response:** "Give me a keyword of the project."
- User Input:** "assistant"
- Assistant Response:** "I found 3 projects with the keyword 'assistant' in their names. Which one are you looking for?"
- List of Projects:**
 - SCHOOL ASSISTANT
 - VOICE ASSISTANT
 - INTERACTIVE DIGITAL ASSISTANT
- Input Field:** "Type here or click on the mic" with a microphone icon.



Conversation - Project

The screenshot shows a web browser window with the URL `d3cc08bf6f0n0p.cloudfront.net/index.html`. The page title is "Interactive Digital Assistant". Below the header, there is a "List of Projects" section with three buttons: "SCHOOL ASSISTANT", "VOICE ASSISTANT", and "INTERACTIVE DIGITAL ASSISTANT". The "INTERACTIVE DIGITAL ASSISTANT" button is selected, and a dropdown menu is visible with the text "InteractiveDigitalAssistant" and a three-dot menu icon. Below this, a pink input field contains the text "What is the information you would like to know about?". The main content area is divided into five columns of project information categories, each with several blue buttons:

- General Informations 1:** STATUS, BUSINESS NEED, OPPORTUNITY, TARGET DATE, BUSINESS CONTACT
- General Informations 2:** ADVANTAGE, RISK, ROI
- Project Timeline Informations 1:** PROJECT NAME, PROJECT OWNER, BUSINESS OWNER, PROJECT MANAGER, PROJECT DESCRIPTION
- Project Timeline Informations 2:** MILESTONES, CURRENT MILESTONE, NEXT MILESTONE
- Project Timeline Informations 3:** ACCOMPLISHMENT, KEY ACTIVITY, ISSUE

At the bottom, there is a text input field with the placeholder "Type here or click on the mic" and a microphone icon.



Conversation - Project

The screenshot shows a web browser window with the title "Interactive Digital Assistant" and the URL "d3cc08bf6f0n0p.cloudfront.net/index.html". The page has a red header with the title and a hamburger menu icon. Below the header, there is a search bar with the text "What is the information you would like to know about?". The main content area is divided into five columns of project information categories, each with several blue buttons representing sub-topics:

- General Informations 1:** STATUS, BUSINESS NEED, OPPORTUNITY, TARGET DATE, BUSINESS CONTACT
- General Informations 2:** ADVANTAGE, RISK, ROI
- Project Timeline Informations 1:** PROJECT NAME, PROJECT OWNER, BUSINESS OWNER, PROJECT MANAGER, PROJECT DESCRIPTION
- Project Timeline Informations 2:** MILESTONES, CURRENT MILESTONE, NEXT MILESTONE
- Project Timeline Informations 3:** ACCOMPLISHMENT, KEY ACTIVITY, ISSUE

At the bottom right, there is a search bar with the text "current milestone" and a dropdown arrow. Below this, a pink message bubble contains the text: "The current milestone of the project Interactive Digital Assistant is recorded that 'Alpha Presentation started on 10/4/2021 and expected to be completed by 10/18/2021.'". At the very bottom, there is a text input field with the placeholder "Type here or click on the mic" and a microphone icon.



Conversation - Incident

The screenshot shows a web browser window titled "Interactive Digital Assistant" with the URL "d3cc08bf6f0n0p.cloudfront.net/index.html". The interface has a red header with the title and a help icon. The main content area shows a chat conversation:

- User: "What is the number of the incident? (7 digits only)"
- Assistant: "yes"
- User: "6471617"
- Assistant: "What information would you like to know?"

The assistant's response is a grid of 30 blue buttons organized into six columns:

Incident Information 1	Incident Information 2	Incident Information 3	Incident Information 4	Incident Information 5	Incident Information 6
NUMBER	PENDING REASON	CHANGE REQUEST	RESOLUTION	EXTERNAL SYSTEM	MARKET
AFFECTED USER	ASSIGNMENT GROUP	CAUSED BY CHANGE	CASUAL CODE	EXTERNAL NUMBER	APPLICATION FUNCTION
CONFIGURATION ITEM	ASSIGNED TO	ENHANCEMENT	CLOSURE COMMENTS	PARENT	COMMENTS AND WORK NOTES
COMPONENT CI	SHORT DESCRIPTION	PROBLEM	IMPACTED PLANTS	LEGAL ENTITY	
STATE	PRIORITY	CLOSE CODE	IMPACTED DEALERS	BRAND	

At the bottom, there is a text input field with the placeholder "Type here or click on the mic" and a microphone icon.



Conversation - Incident

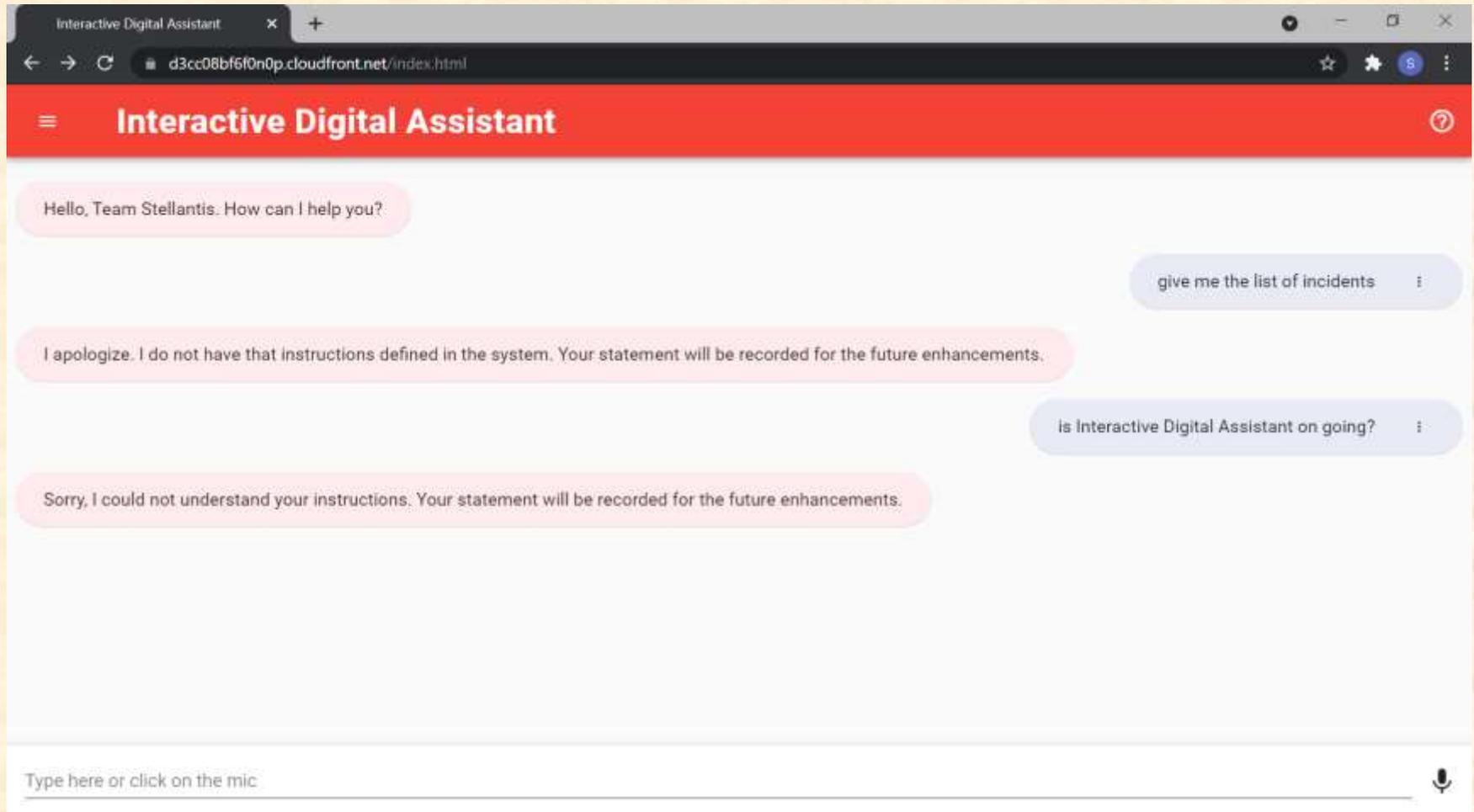
The screenshot shows a web browser window with the URL `d3cc08bf6f0n0p.cloudfront.net/index.html`. The page title is "Interactive Digital Assistant". The main content area displays a search interface for incident information. At the top, there is a search bar with the text "6471617" and a dropdown arrow. Below the search bar, a question is posed: "What information would you like to know?". The interface is organized into six columns, each representing a different category of incident information:

- Incident Information 1:** NUMBER, AFFECTED USER, CONFIGURATION ITEM, COMPONENT CI, STATE
- Incident Information 2:** PENDING REASON, ASSIGNMENT GROUP, ASSIGNED TO, SHORT DESCRIPTION, PRIORITY
- Incident Information 3:** CHANGE REQUEST, CAUSED BY CHANGE, ENHANCEMENT, PROBLEM, CLOSE CODE
- Incident Information 4:** RESOLUTION, CASUAL CODE, CLOSURE COMMENTS, IMPACTED PLANTS, IMPACTED DEALERS
- Incident Information 5:** EXTERNAL SYSTEM, EXTERNAL NUMBER, PARENT, LEGAL ENTITY, BRAND
- Incident Information 6:** MARKET, APPLICATION FUNCTION, COMMENTS AND WORK NOTES

At the bottom of the interface, a search result is displayed: "The short_description of INC6471617 is 'Sparc - Install application.'". Below the search result is a text input field with the placeholder "Type here or click on the mic" and a microphone icon.



Error Handling



The screenshot shows a web browser window with the title "Interactive Digital Assistant" and the URL "d3cc08bf6f0n0p.cloudfront.net/index.html". The page features a red header with the text "Interactive Digital Assistant" and a hamburger menu icon on the left, and a question mark icon on the right. The main content area is a chat interface with the following messages:

- Assistant: Hello, Team Stellantis. How can I help you?
- User: give me the list of incidents
- Assistant: I apologize. I do not have that instructions defined in the system. Your statement will be recorded for the future enhancements.
- User: is Interactive Digital Assistant on going?
- Assistant: Sorry, I could not understand your instructions. Your statement will be recorded for the future enhancements.

At the bottom of the chat area, there is a text input field with the placeholder text "Type here or click on the mic" and a microphone icon on the right.



What's left to do?

- Building login authentication system
- Implementing conversation about plants
- Re-implementing conversation relating to the calendar
- Improve on question/statement and response to be more conversational



Questions?

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