

UNIVERSITY
OF WOLLONGONG
IN DUBAI

CSCI323: Modern Artificial Intelligence

LeadVA

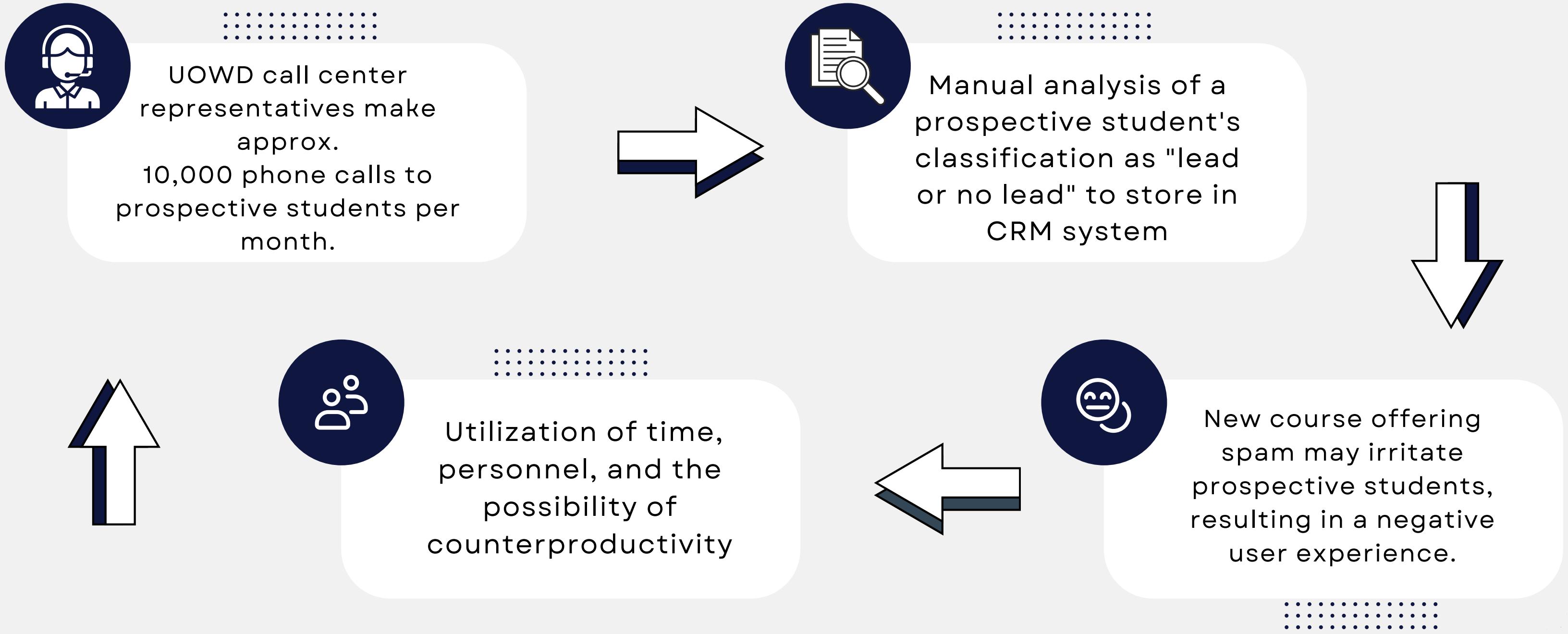
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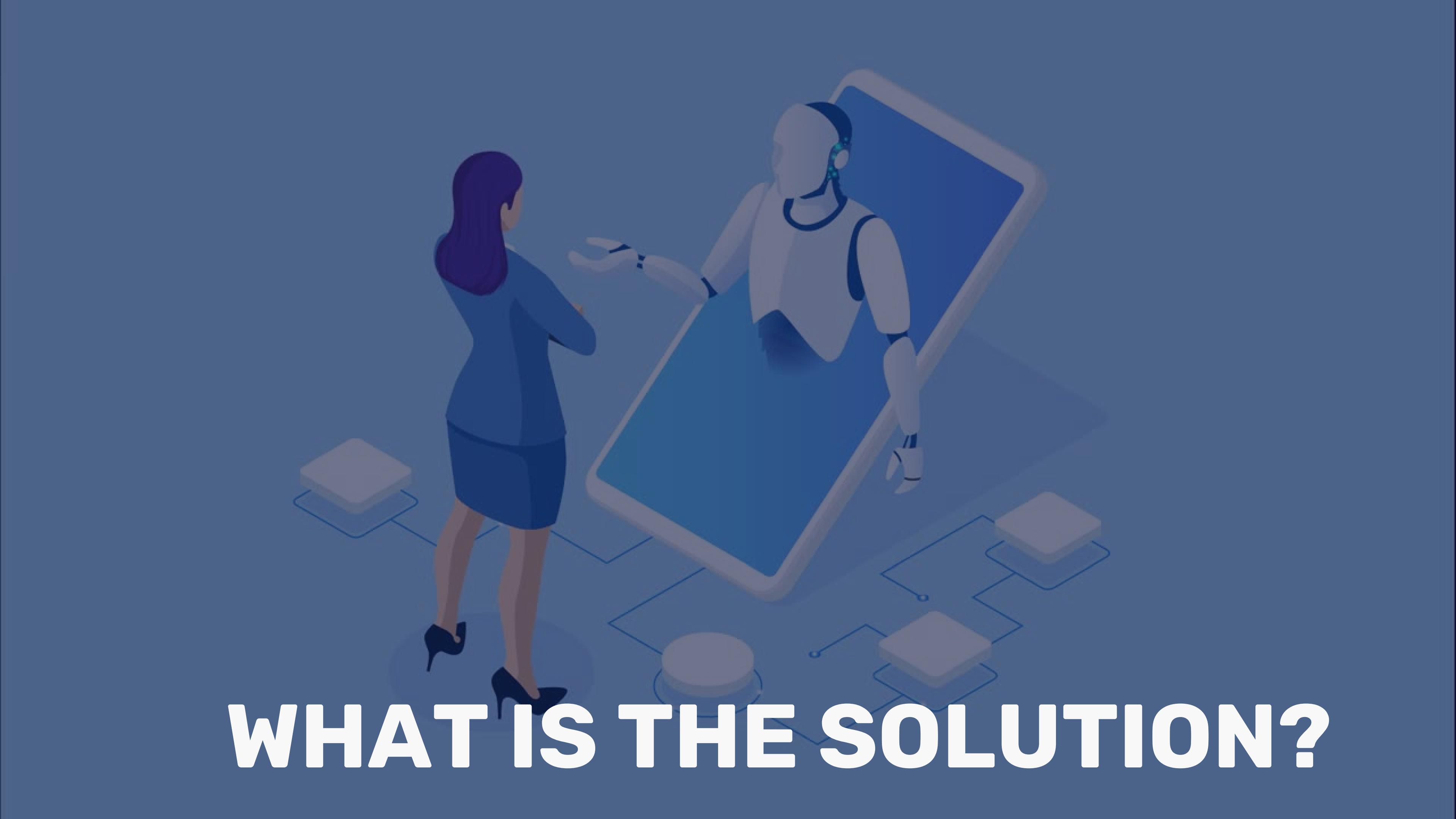


CONTENTS

- Introduction
- Project management
- System architecture
- Technical requirements
- Live Demo
- Limitations
- Future improvements

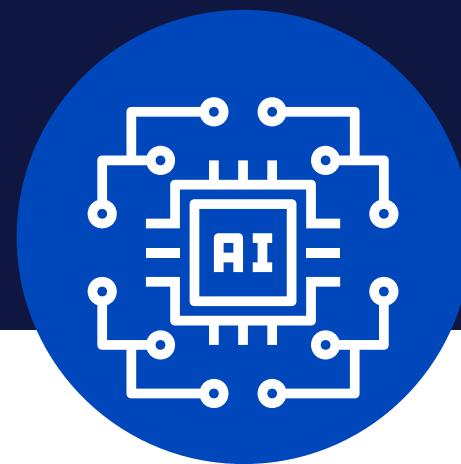
WHAT PROBLEM IS BEING ADDRESSED?



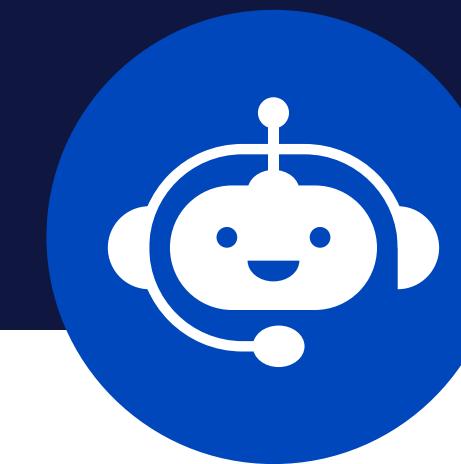


WHAT IS THE SOLUTION?

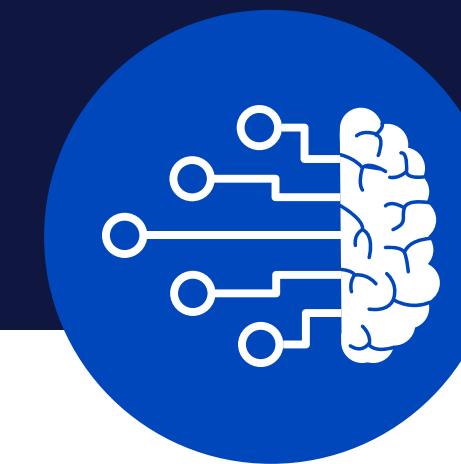
About LeadVA



A system based on AI that attempts to imitate human behavior and increase efficiency.



Using an AI-based virtual assistant to make automated calls to prospective students



Using machine learning for automatic generic of leads



BUSINESS VALUE

- Effective use of time & human resources
- Increased enrollment rate
- Improved UOWD ranking

INTERNAL STAKEHOLDERS

UOWD Recruitment &
Admissions Team

CSCI323 Project Team

UOWD executives

CSCI323 Project
Supervisor

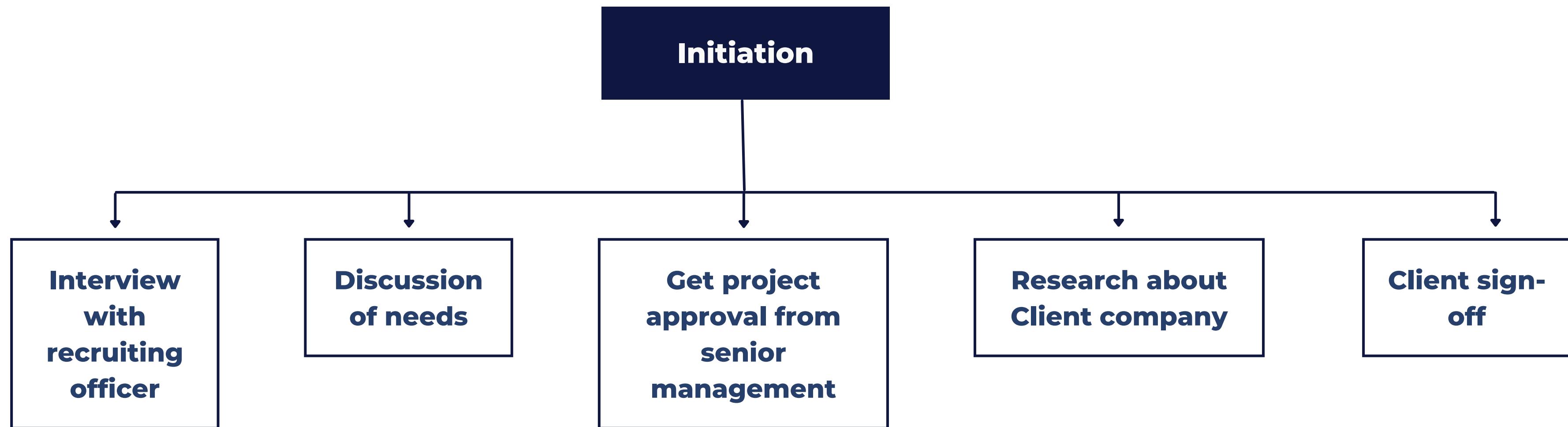
EXTERNAL STAKEHOLDERS

Prospective
students

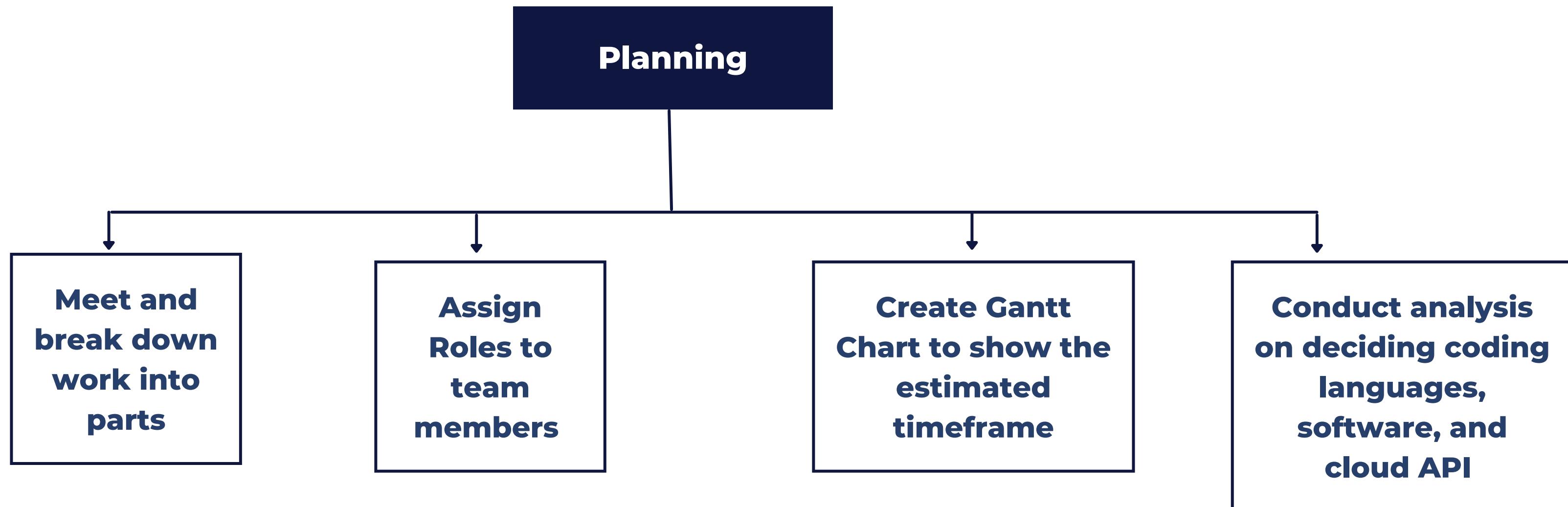


PROJECT MANAGEMENT

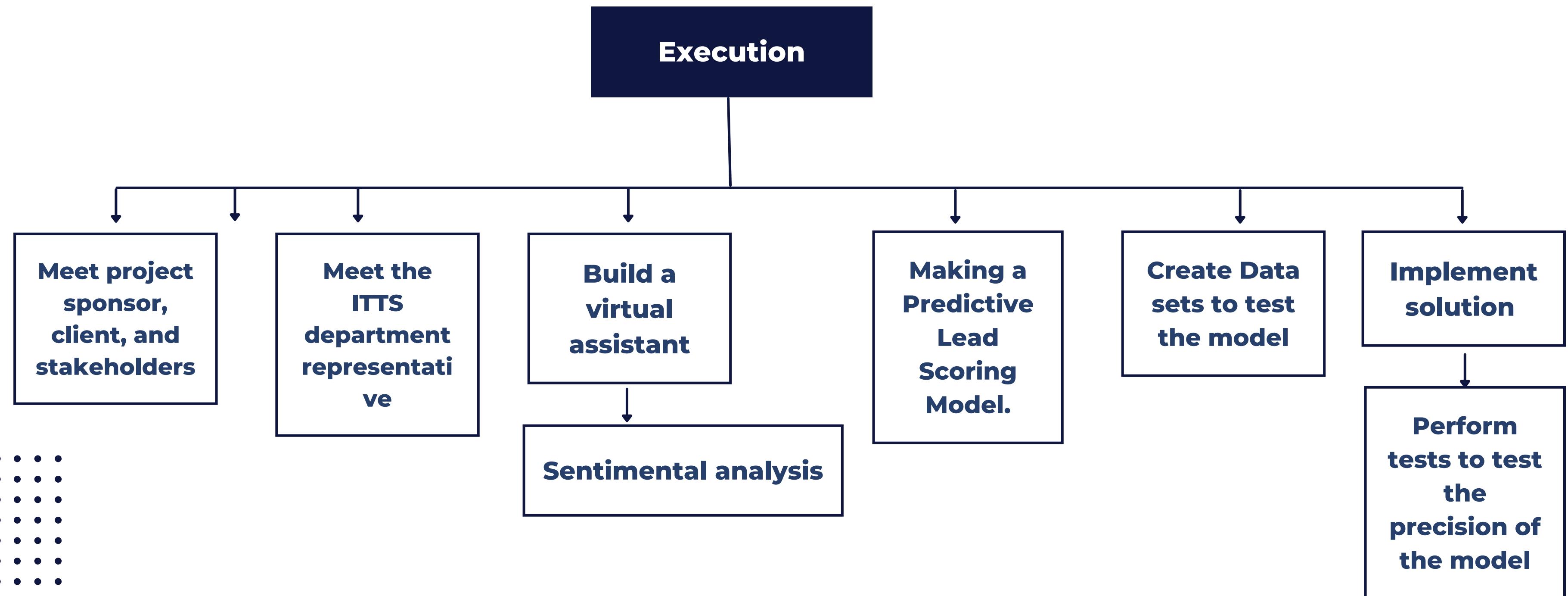
WORK BREAKDOWN STRUCTURE (WBS)



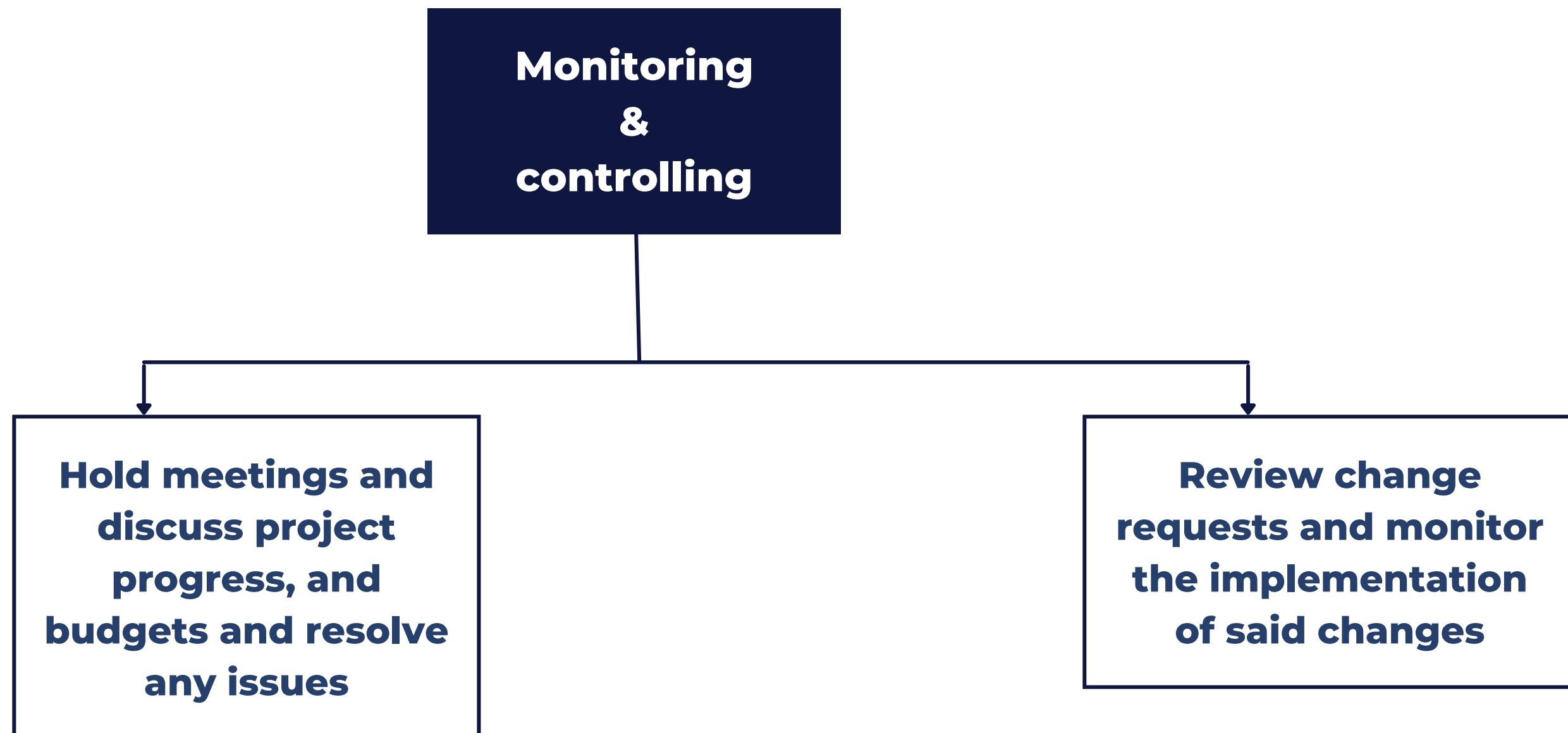
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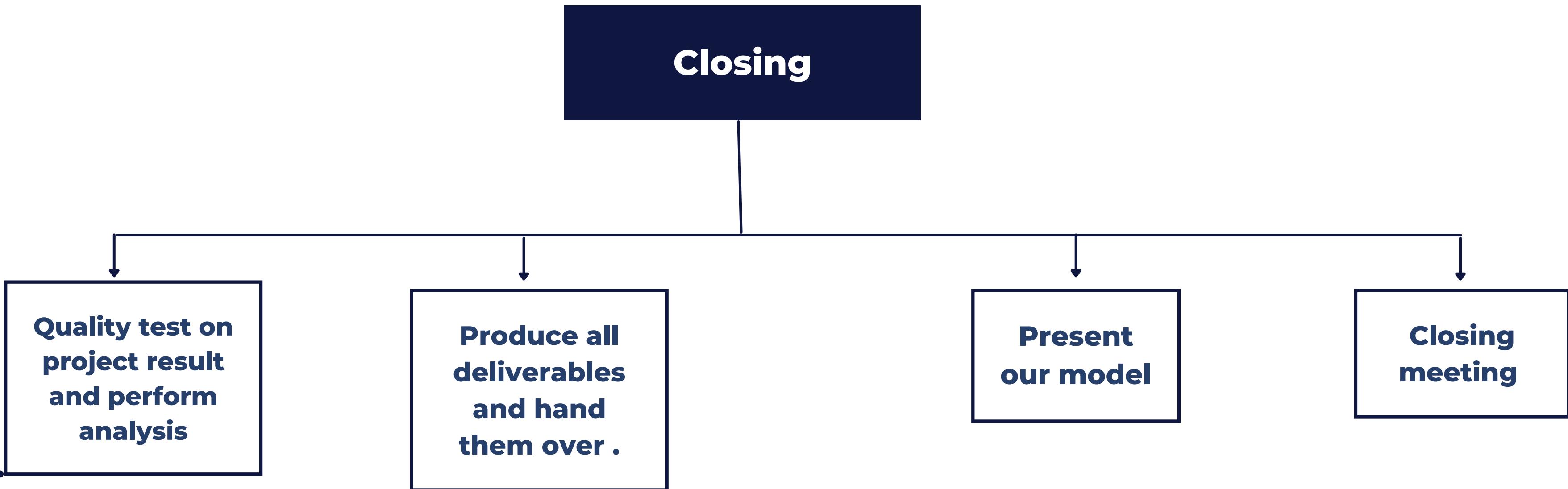
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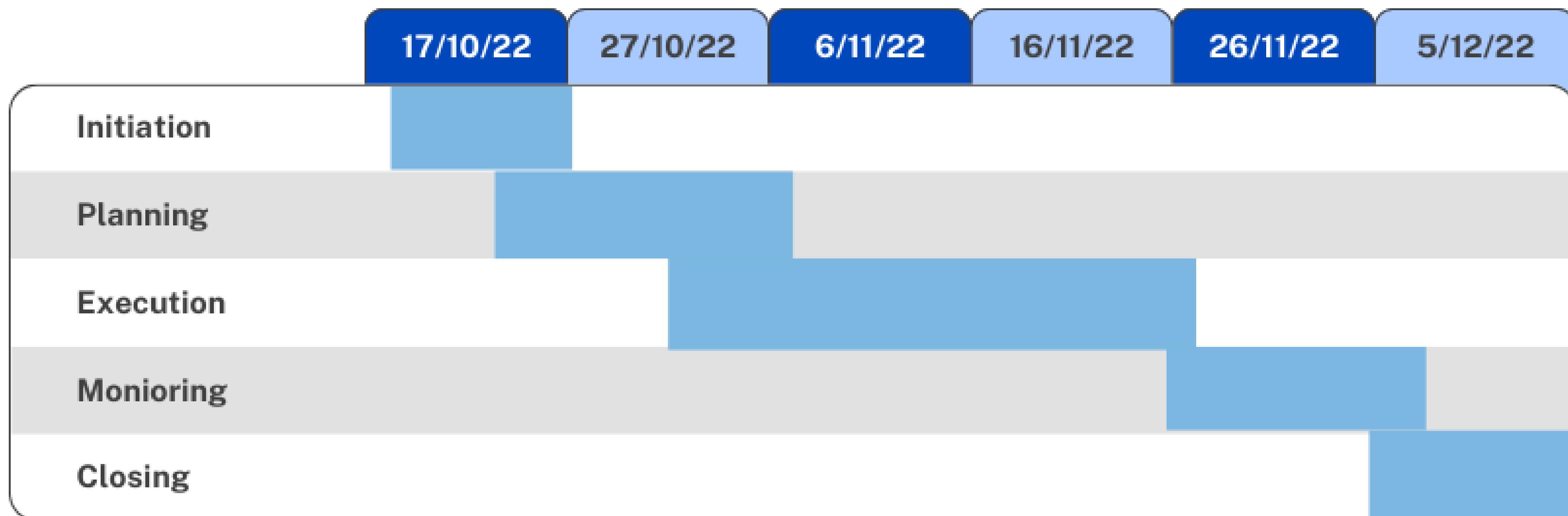


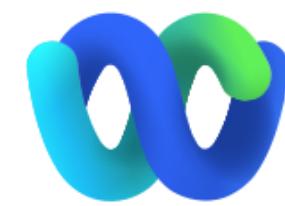
WORK BREAKDOWN STRUCTURE (WBS)



LeadVA

Project Timeline





webex
by CISCO

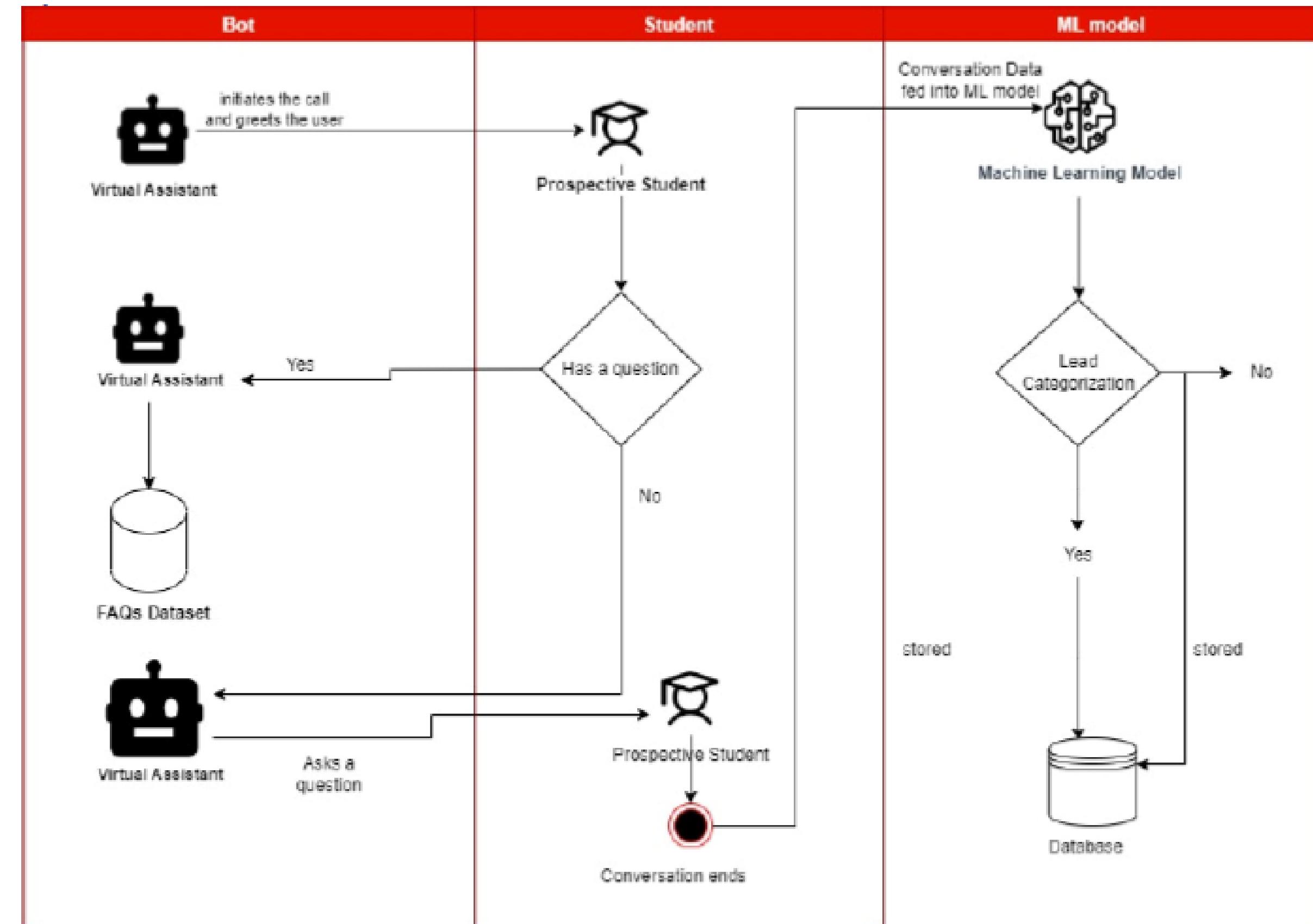


OneDrive



Trello

SYSTEM ARCHITECTURE



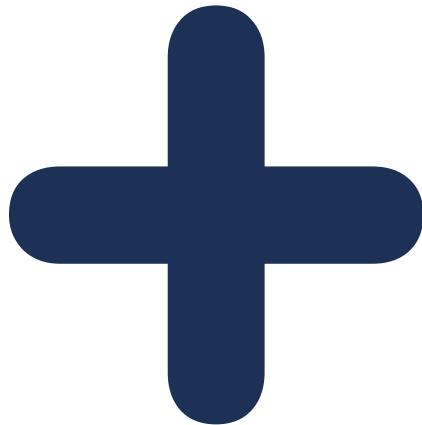


TECHNICAL REQUIREMENTS

- NLP
- Sentimental Analysis
- ML (Logistic Regression)

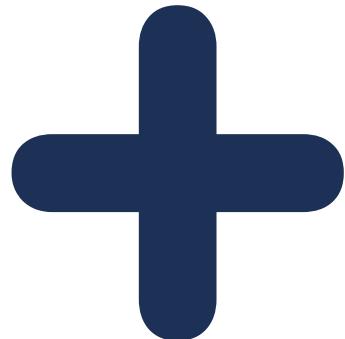


PLATFORMS



Visual Studio

Jupiter Notebook

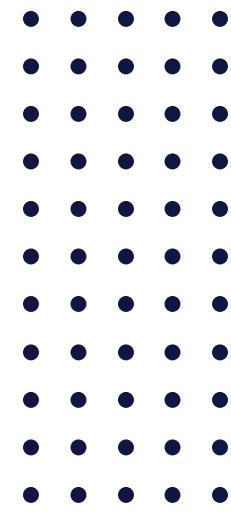
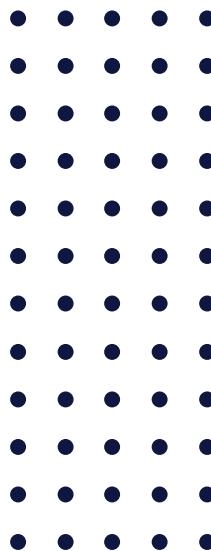


TOOLS

IBM Watson

pickle

glob



LIBRARIES

+ Virtual Assisant

- Numpy
- Pandas
- Lingualytics
- Texthero
- sentence_transformers
- os
- sys
- speech_recognition
- pyttsx3

+ Machine Learning

- sklearn
- numpy
- pandas
- matplotlib,pyplot
- seaborn



DEMO

LIMITATIONS

Limited choices for choosing a speech-to-text model

Low training dataset for the virtual assistant

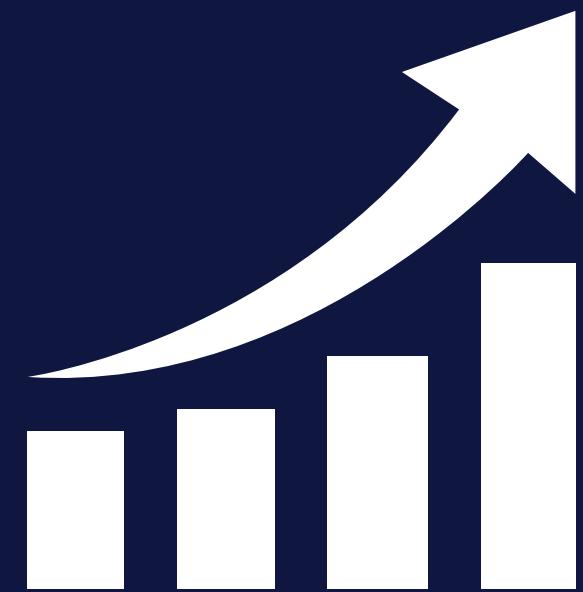
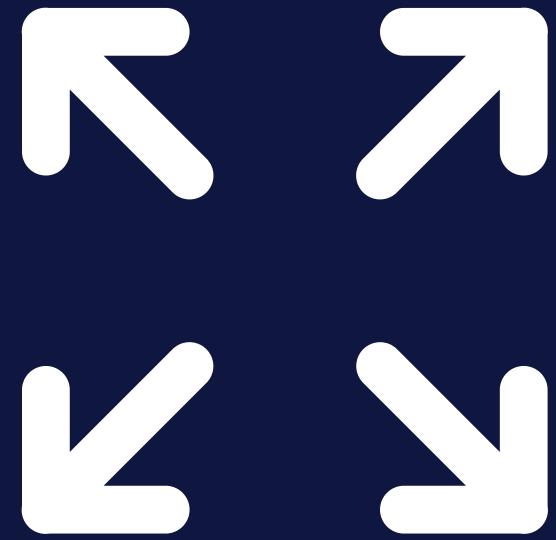
Unavailability of real training data for lead score generation

Virtual assistant only understands English language

○ ○ ○ ○

FUTURE IMPROVEMENTS

○ ○ ○ ○



EXPAND TO CURRENT
STUDENT QUERIES

INCREASE FUNDING

INCREASE TRAINING
DATASET

TRAIN WITH DIFFERENT
LANGUAGES

**THANK
YOU!**