



# GROUP PROJECT

WID3002

NATURAL LANGUAGE PROCESSING

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# INTRODUCTION



Marks : 50%



Aim : To resolve any issue found in UM using NLP



Phases : 3

# Phase 1

## Problem Identification

### Activities :

- Identify any potential issues in any unit/department in UM that can be resolved using NLP. Then identify the NLP application.
- Arrange a meeting/interview/survey with the identified unit/department to justify the problem statement.
- Identify the data/language to be used and how this data can be collected.
- Pitch the proposal.

Period : 3 weeks

Marks : 10%

# Phase 2

## Design

### Activities :

- Conduct a literature review to study the previous works which relevant to the proposed NLP application
- Identify the preprocessing techniques and also techniques to be used for in the application (rule-based/statistical/ML/DL/transformer/etc.)
- Design the architecture of the application
- State any NLP ethics considered in the project
- Present the findings and Design.

Period : 3 weeks

Marks : 20%

# Phase 3

## Development

### Activities:

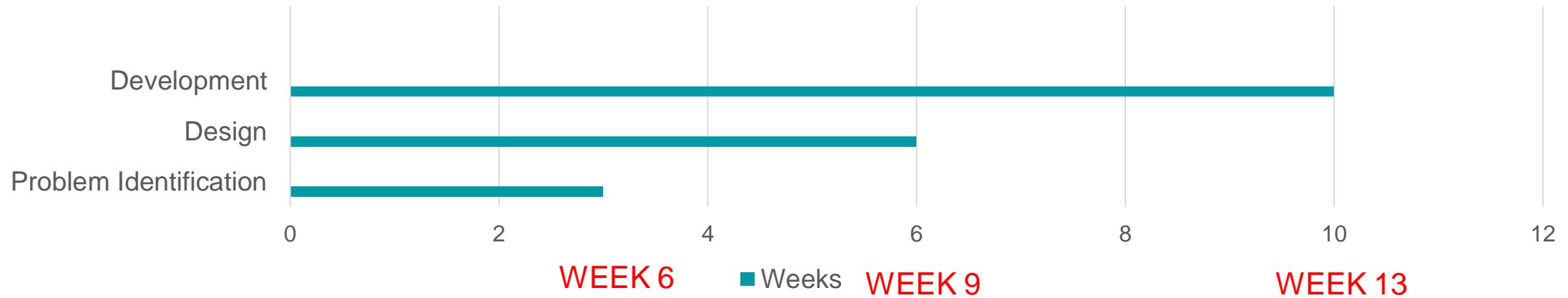
- Develop the dataset (if necessary) and the application
- Conduct an evaluation and simple testing with the stakeholders/target users
- Demo the application.

Period: 4 weeks

Marks: 20%

# Timeline:

Project Timeline



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# Week 3 - 6:

## **Task:**

1. Form a group of approximately 5-6 members per group.
2. Declare the group members using the link given.
3. Identify the issues & the NLP application to be used/developed for the issues.

## **Submission:**

- Prepare a 1-slide presentation for the pitching session

## **Presentation:**

- Pitching the proposal within 3 minutes during Week 6.
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# Week 6 - 9:

## **Task:**

1. Conduct a LR on the topic – related to the domain and techniques of NLP
2. Identify the NLP techniques to be used.
3. Design the architecture of the system/application

## **Submission:**

- Prepare a 3-slides presentation for the presentation session

## **Presentation:**

- Present the techniques and design within 5 minutes during Week 9.
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# Week 9 - 13:

## **Task:**

1. Develop the dataset (if necessary)
2. Develop the system/application
3. Conduct an evaluation or testing

## **Submission:**

- Prepare an infographic of the system/application

## **Presentation:**

- Demonstrate the system/application within 5-10 minutes during Week 13.
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**Q & A?**

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