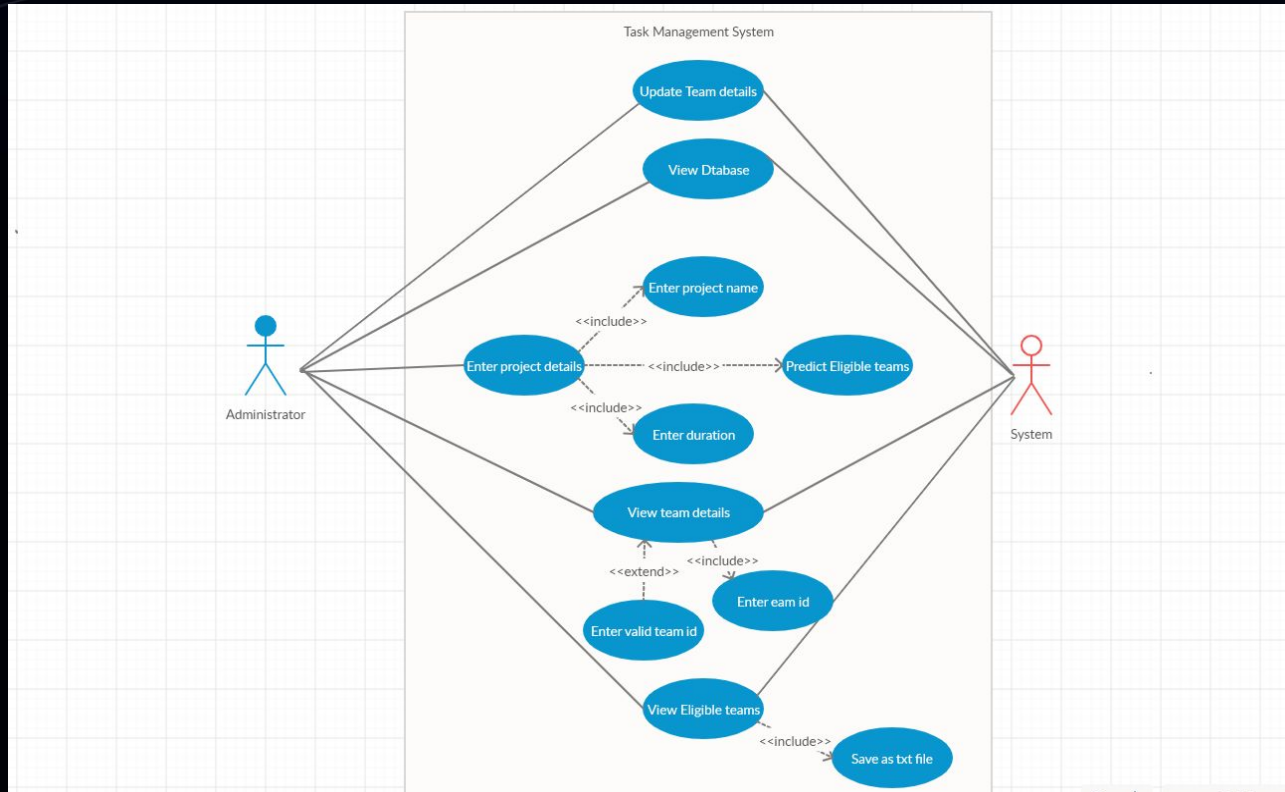




TASK MANAGEMENT SYSTEM

Team: CET Bhubaneswar_TechPie

USE CASE DIAGRAM :

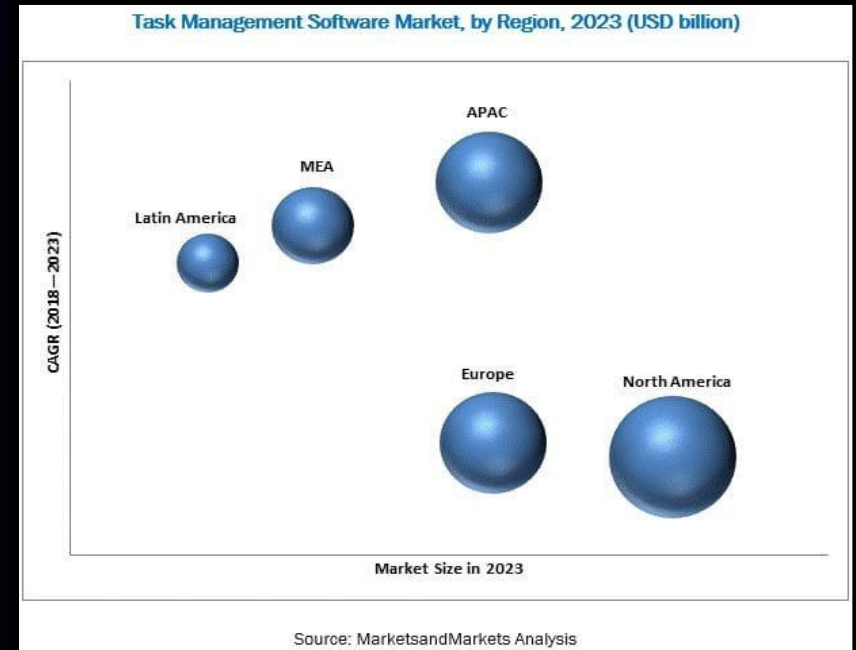


DETAILED BUSINESS CASE:

- Optimal resource allocation is the most challenging task for ever company.
- Doing it manually leads to underutilization of resources , time-consumption, more error-prone and less transparent which might lead to huge financial loss and bad reputation of the company.
- Assigning resources to projects on the basis of skills, time, difficulty and availability using ML more accurate, more transparent in less time duration.
- Task management software helps enterprises save time and money with respect to organizing and managing tasks and resources.

DETAILED BUSINESS CASE:

- The global task management software market size is expected to grow from USD 2.27 billion in 2018 to USD 4.33 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 13.7%.
- The growing need for cost optimization, effective utilization of IT infrastructures, and workforce optimization is expected to propel the demand for task management software and associated services.



Solution Design and Architecture :

- The gathered data is stored into excel file i.e. in .csv format.
- Various modules of Python3 like scikit-learn , tkinter, tkcalendar , pandas and numpy are used.
- Tkinter is used to develop the front end of the stand alone application.
- There are 2 csv files: test.csv & train.csv.
- We use KNN model to train the dataset from train.csv and use it on test.csv

LOGICAL DATA MODELLING:

We have used excel files in .csv format instead of using databases.
("train.csv" for training the model and "test.csv" for prediction)

The columns of dataset are:

- Team number
- Number of members
- Experience
- No of projects handled in past
- No of projects completed before deadline
- Communication
- Transparency
- Environment Satisfaction
- Job Satisfaction
- Enthusiasm

The rows of dataset are:

- Team number i.e 1,2,3....



THANK YOU.