

TIME BOT

NLU CHATBOT TO ADD WORK LOGS

**INTERNAL GUIDE,
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**SUBMITTED BY,
DEVIKA NAIR M**



SCOPE OF THE PROJECT

The objective of the project is to provide an AI enabled chatbot for capturing work logs of employees in an organization. The main objectives are



Improve user experience with accurate capturing of time



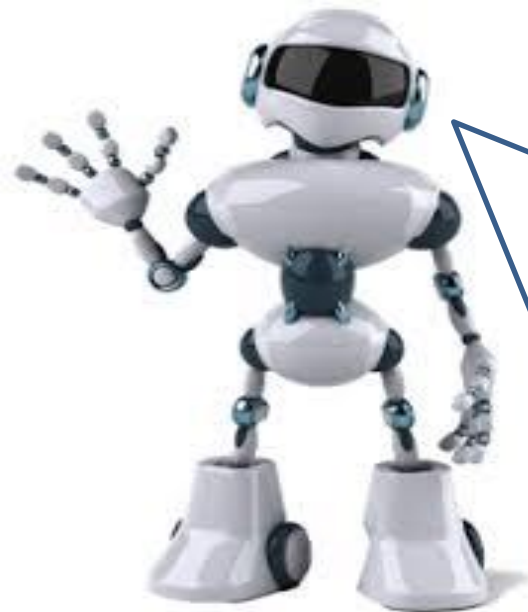
To solve user issues on first contact



Drive down time spent on time entry and get valuable insights



Provide consistent and stable time entry ,monitoring and reporting.



TECHNICAL FEASIBILITY

Technical feasibility checks whether the new system is technically feasible



Nodejs is single threaded and highly efficient.



Chatbot is portable.



Uses efficient data storage.



OPERATIONAL FEASIBILITY



User friendly.



Various types of reporting.



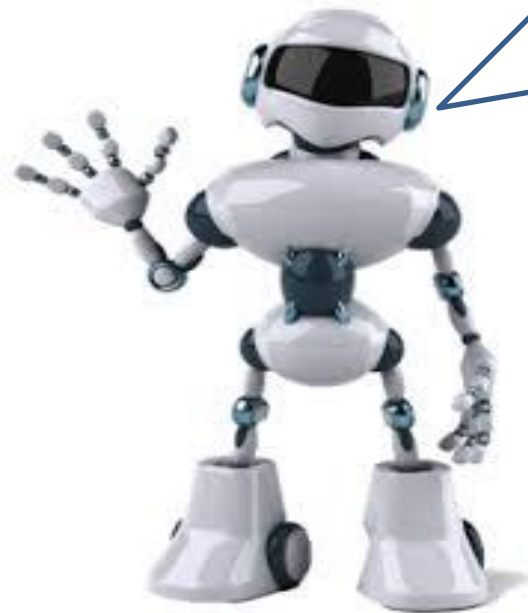
Time saving



ECONOMIC FEASIBILITY



Cost efficient



TOOLS USED

Chatbot

Frontend : Slack

AI : LUIS

Database : Mysql

Backend: Nodejs

Admin Portal

Frontend : Angular

Server Side : Nodejs



MODULES

1.USER MANAGEMENT

Introduction: To add,delete,update
the users for chatbots

Input : user details.

Processing : valid data are inserted to
database

Output : The user details are recorded
in database



MODULES

2.PROJECT MANAGEMENT

Introduction: To add,update,delete
the project details.

Input : Project details.

Processing : valid data are inserted to
database

Output : The user details are recorded
in database



MODULES

3.REPORT GENERATION

Introduction : Generate and view different reports such as employee wise, team wise and project wise reports.

Input : date interval and employee details.

Processing : fetching data from database.

Output : The report of particular time interval will be displayed.



MODULES

4.LOG MANAGEMENT

Introduction: To add, delete, update, view work log

Input : log details.

Processing : the log date and working hours will be identified.

Output : The database is updated according to the logs.



MODULES

5.NOTIFICATIONS

Introduction: Send reminders for managers and employees to add work logs.

Input : No input

Processing : fetching data from database

Output : Notification for employees and manager to add logs.



MODULES

6.CHIT CHAT

Introduction: friendly talks with chat bot.

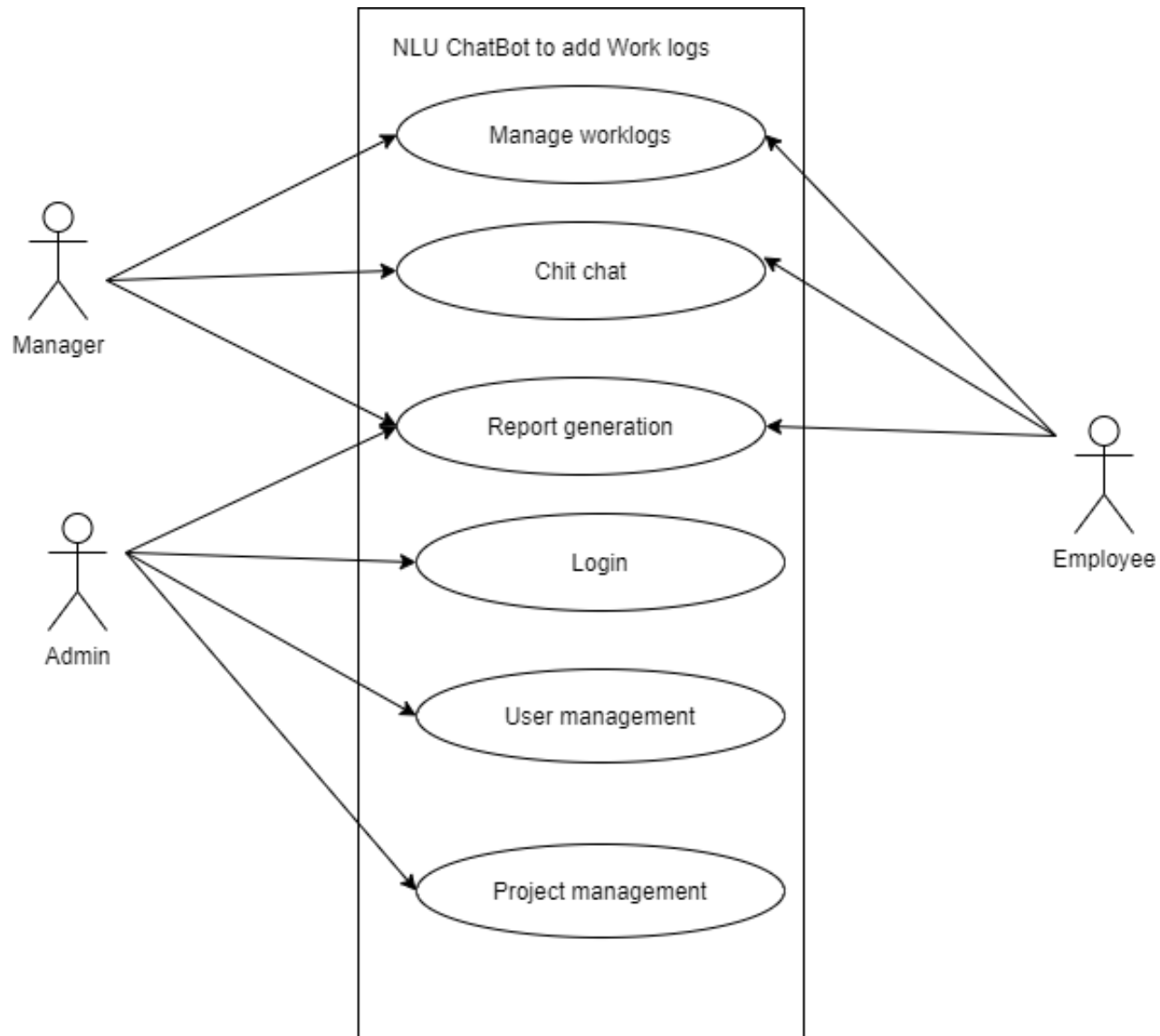
Input : Any casual questions.

Processing : luis identifies the question and give it to chatbot and chatbot search answer in file.

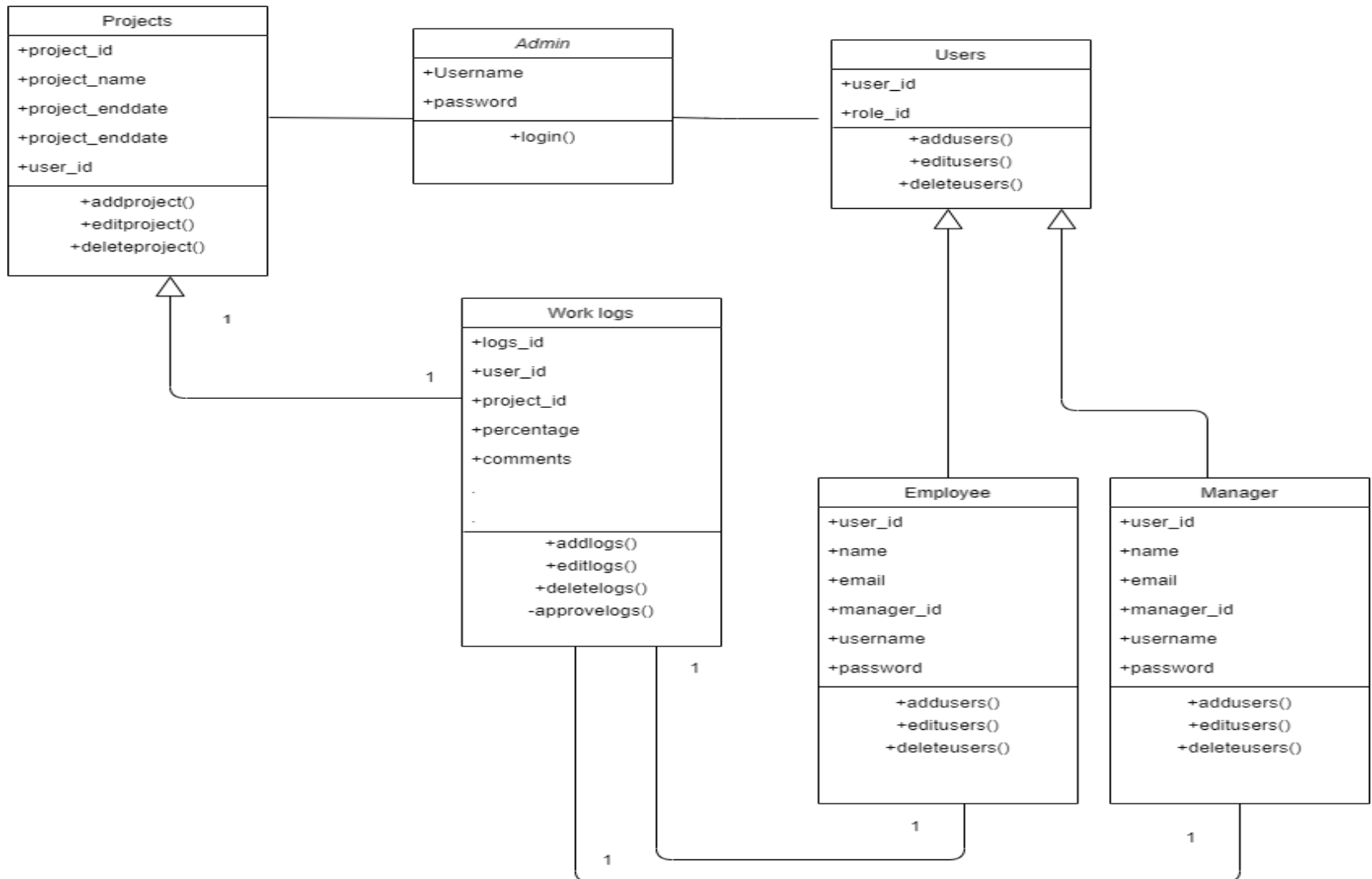
Output : The answer will be displayed.



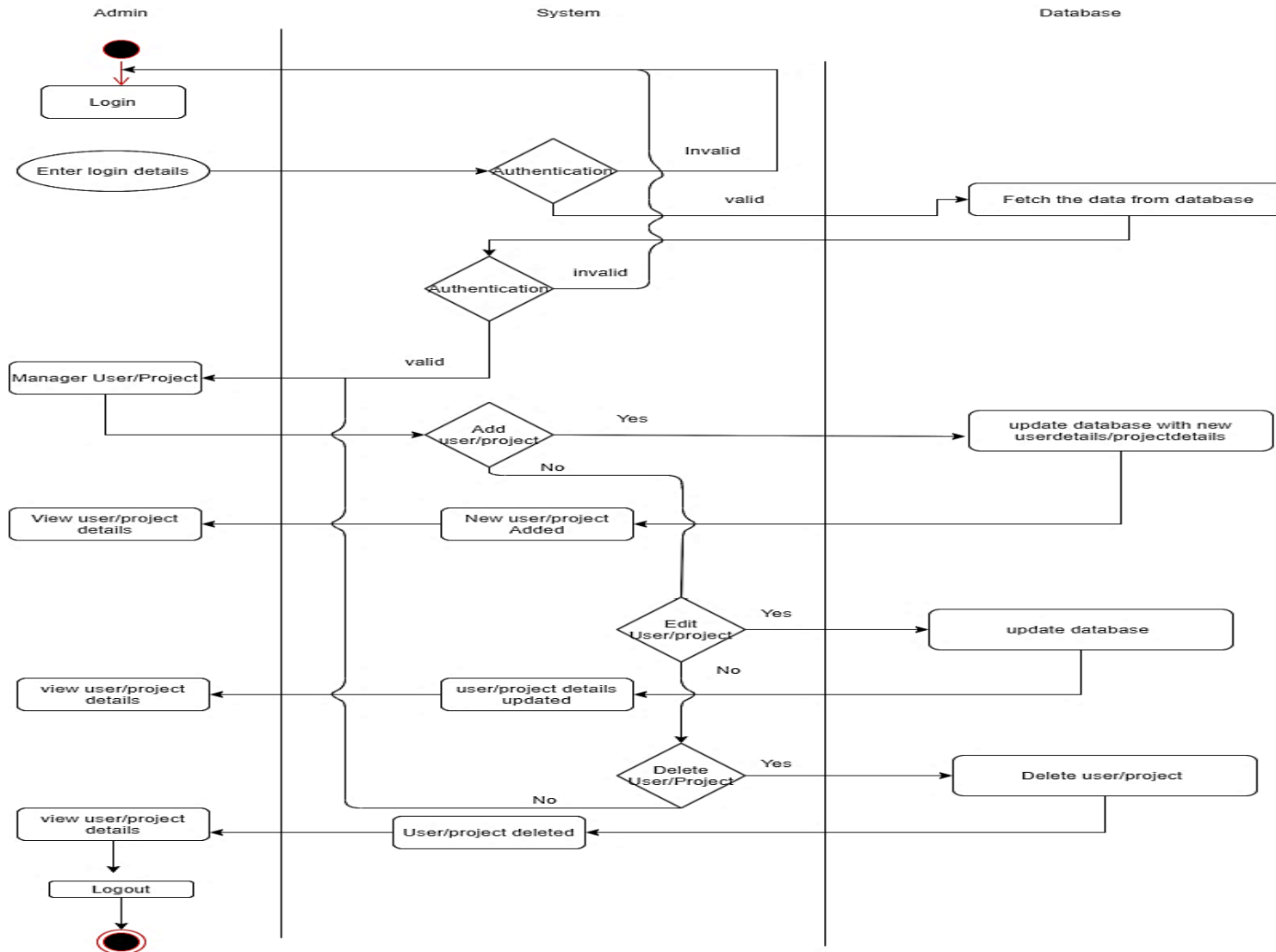
USE CASE DIAGRAM



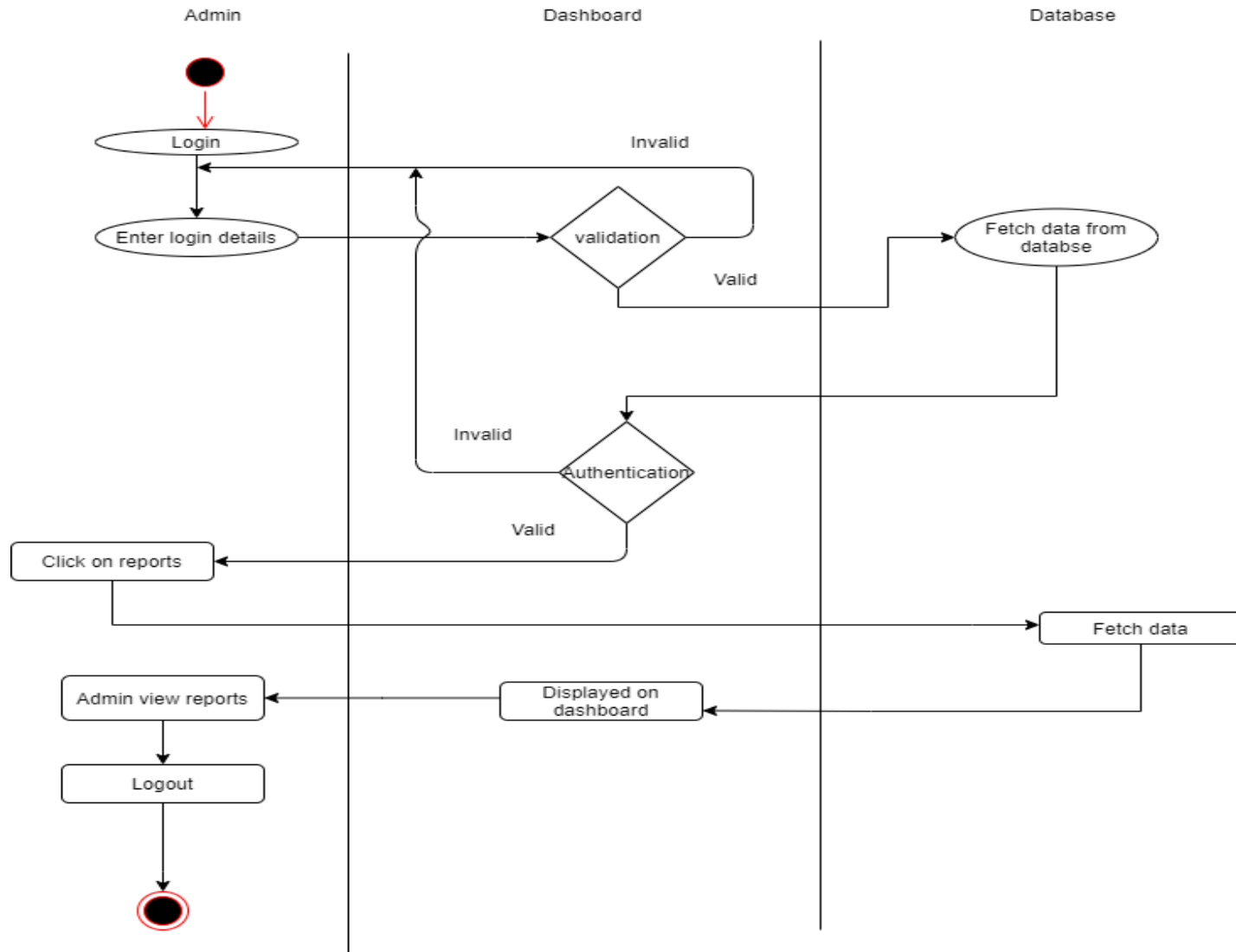
CLASS DIAGRAM



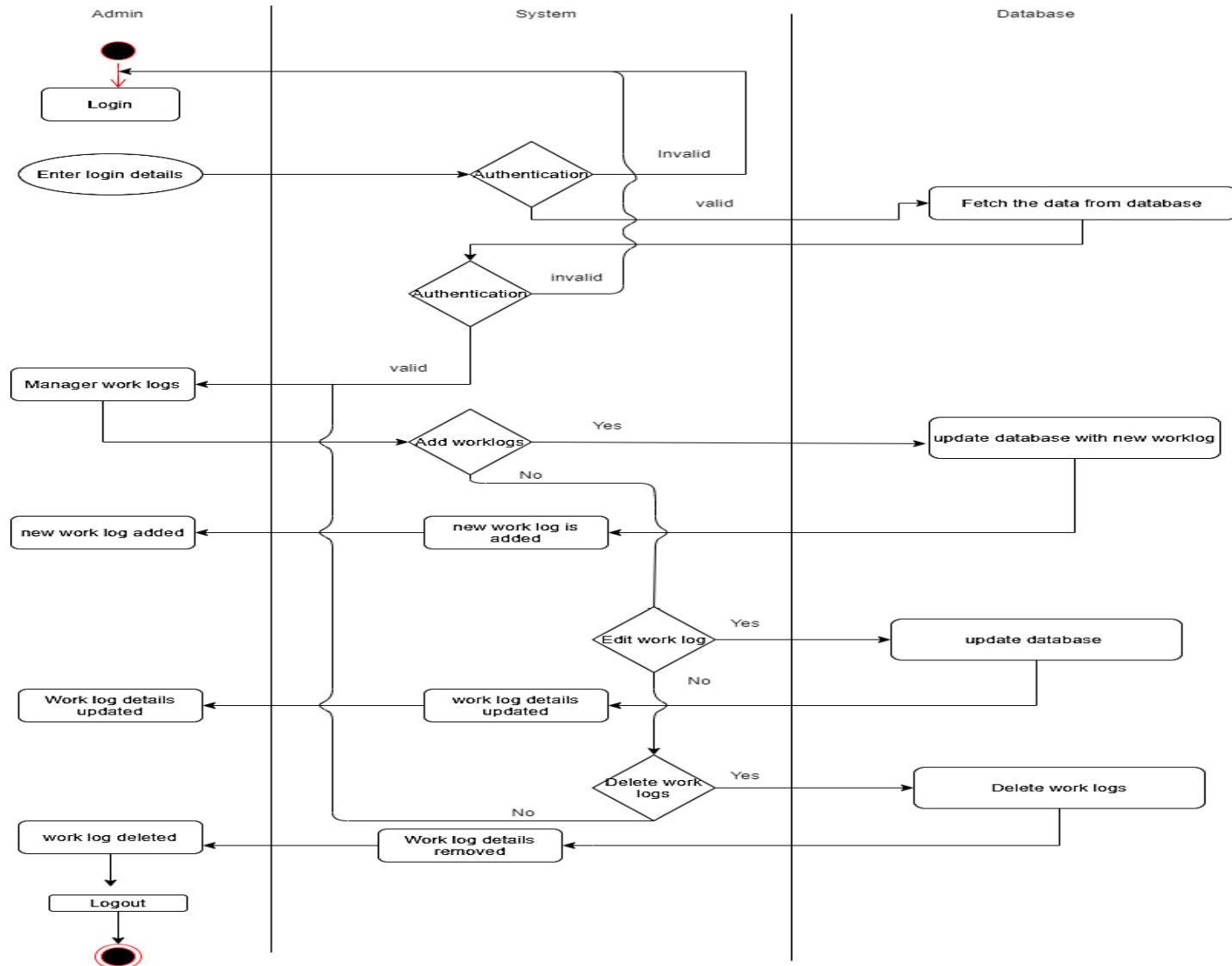
ACTIVITY DIAGRAM



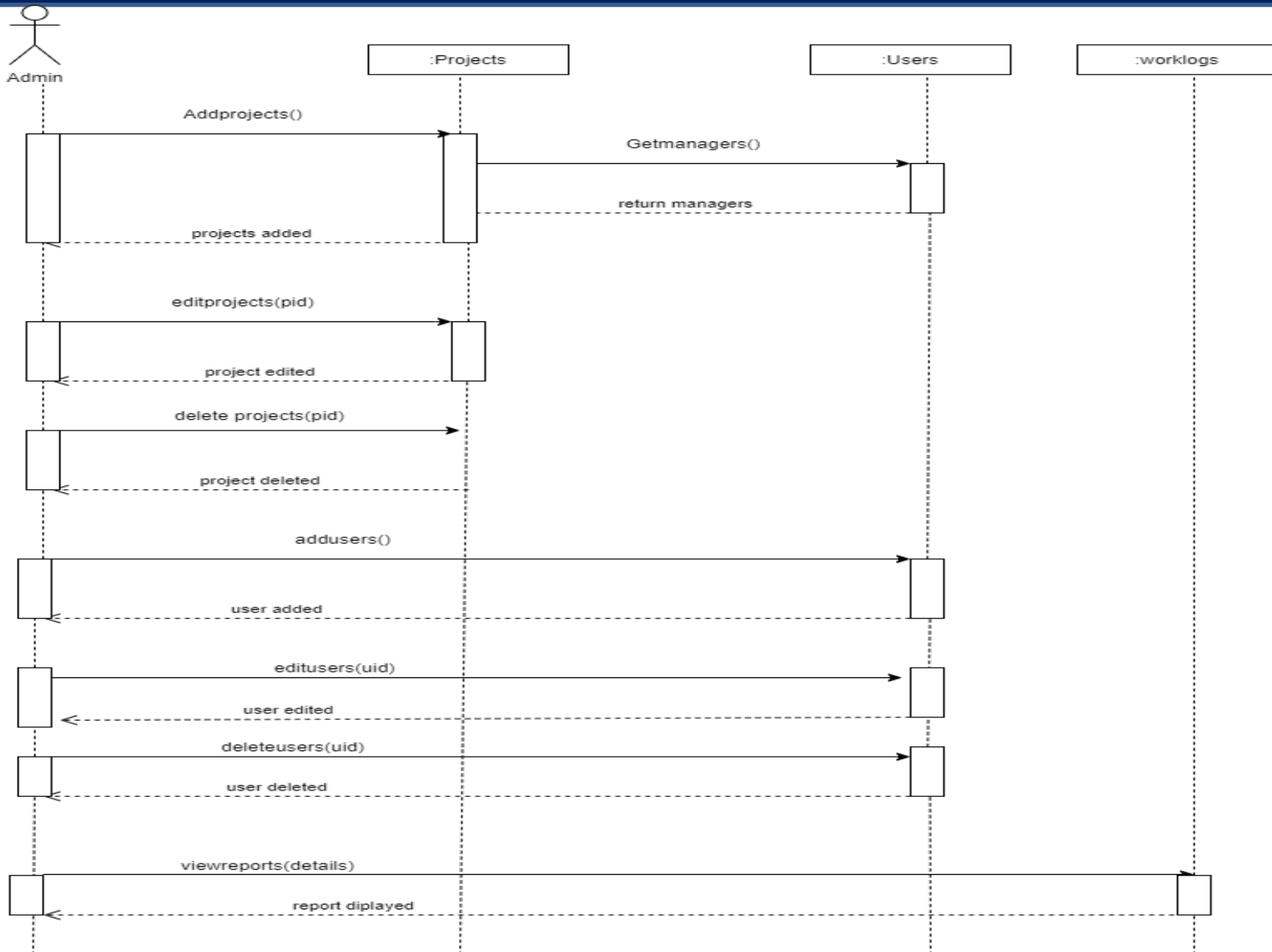
ACTIVITY DIAGRAM



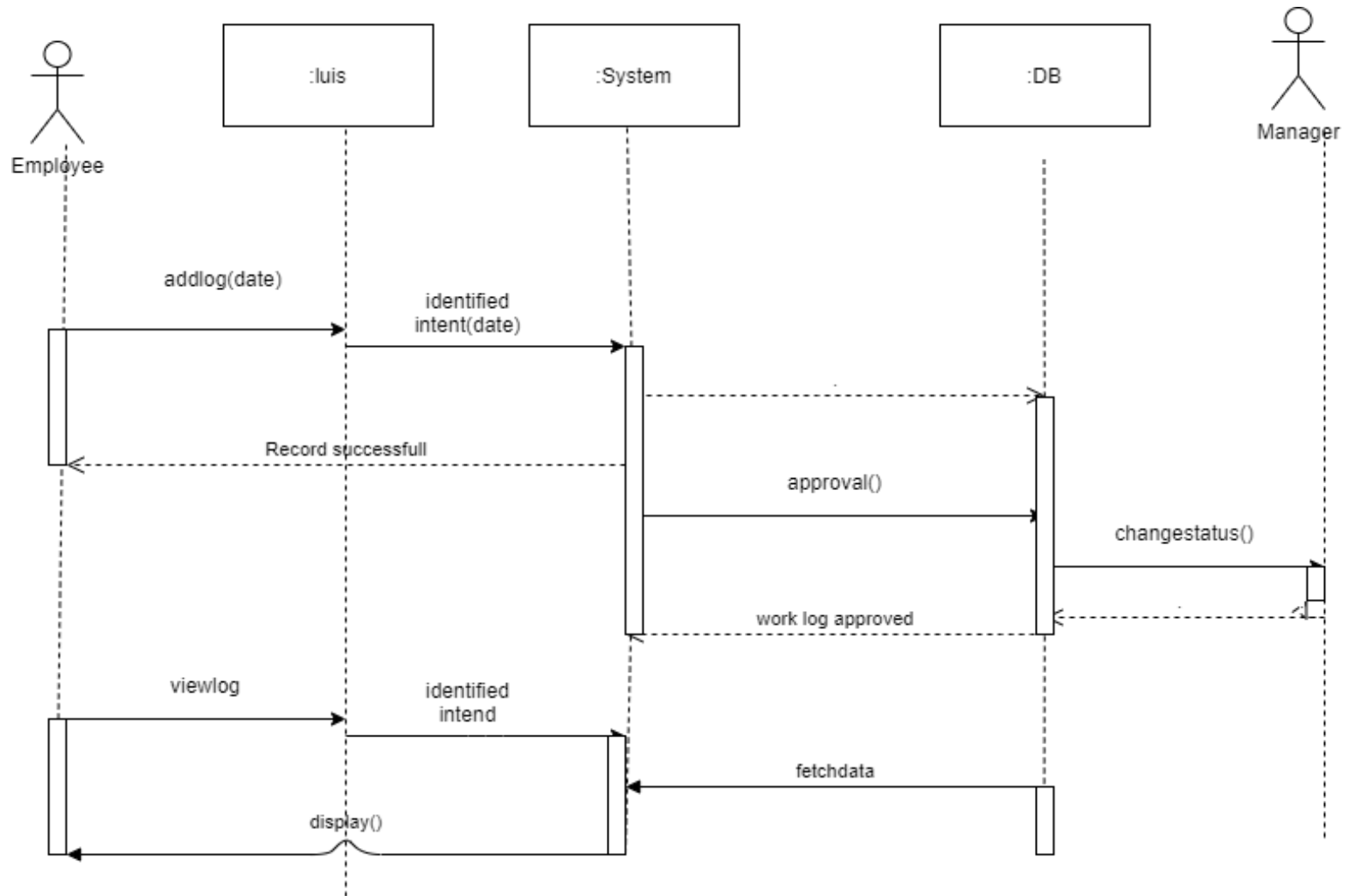
ACTIVITY DIAGRAM



SEQUENCE DIAGRAM



SEQUENCE DIAGRAM



DATABASE DESIGN

1. Login

Sino	Field Name	Data type	Size	Constraints	Description
1	Username	varchar	30	Primary key	To store username
2	Password	varchar	30	Not null	Password
3	Forgot	varchar	30	Not null	security

DATABASE DESIGN

2.User

Sino	Field Name	Data type	Size	Constraints	Description
1	uid	integer	6	Primary key	To store userid
2	username	varchar	30	Not null	Username of user
3	firstname	varchar	30	Not null	First name of user
4	lastname	varchar	30		Last name of user

DATABASE DESIGN

6	activityid	varchar	100		Id from teams
7	roleid	integer	6	Not null	Roleid of user
8	mid	integer	6	Foreign key	Id of manager

DATABASE DESIGN

3.Role

Sino	Field Name	Data type	Size	Constraints	Description
1	Roleid	int	6	Primary key	Id for role
2	Rolename	varchar	30	Not null	Name of role

DATABASE DESIGN

4.Project

Sino	Field Name	Data type	Size	Constraints	Description
1	uid	int	6	Foreign key	User id
2	Pid	int	6	Primary key	Project id
3	Pname	varchar	60	Not null	Name of project
4	Startdate	date		Not null	Start date of project
5	Enddate	date		Not null	End date of

DATABASE DESIGN

5.Timecards

Sino	Field Name	Data type	Size	Constraints	Description
1	tid	int	6	Primary key	timecard id
2	uid	int	6	Foreign	user id
3	Pid	varchar	60	Not null	id of project
4	logdate	date		Not null	worklog date
5	hours	float	2	Not null	Worked hours
6	percent	float	3	Not null	Comple

DATABASE DESIGN

7

status

vachar

10

Not null

status

UI DESIGN



SIGN IN

Username

Enter username

Password

Enter password

☐

Remember me

[Forgot Password?](#)

Login

UI DESIGN

TIME BOT

Reload

Login

Employee Management

Project Management

Project

Employee Management

Employee Reports

First Name

Last Name

User Name

Email

Reporting Manager

User Role

ADD EMPLOYEE

CLEAR ALL

No.	User Name	Role	Manager
1	Devika Nair	Employee	Smitha Nandhakumar
2	Milsha mentez	Employee	Smitha Nandhakumar
3	Mukund Gokulan	Manager	Sudheep chandhran
4	Nandhu B Nair	Employee	Gireesh
5	Prince John	Employee	Mukund Gokulan

UI DESIGN



Timesheet Entry and Management

TimeBot's timesheet management system simplifies the regular timesheet entry process to just a quick chat, captures and records project wise efforts for each individual. You may record the details once a week that too in percentages!

TimeBot's proactive alerts make sure that you never miss a time entry window. Our real time alerts keep you updated about any approvals or rejections so you can take necessary actions immediately.

TestBot-DN 8:35 PM



Utilization Insights

TimeBot provides robust reporting and analytics that may be used to monitor the project burn rates and utilization across the organization.

TimeBot also integrates with other applications in your enterprise to share the recorded timesheet data.

Type your questions here



Type your questions here



UI DESIGN

TestBot-DN 8:35 PM



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Type your questions here



TestBot-DN 8:35 PM



Always glad to assist you!

Let me help you save your valuable time

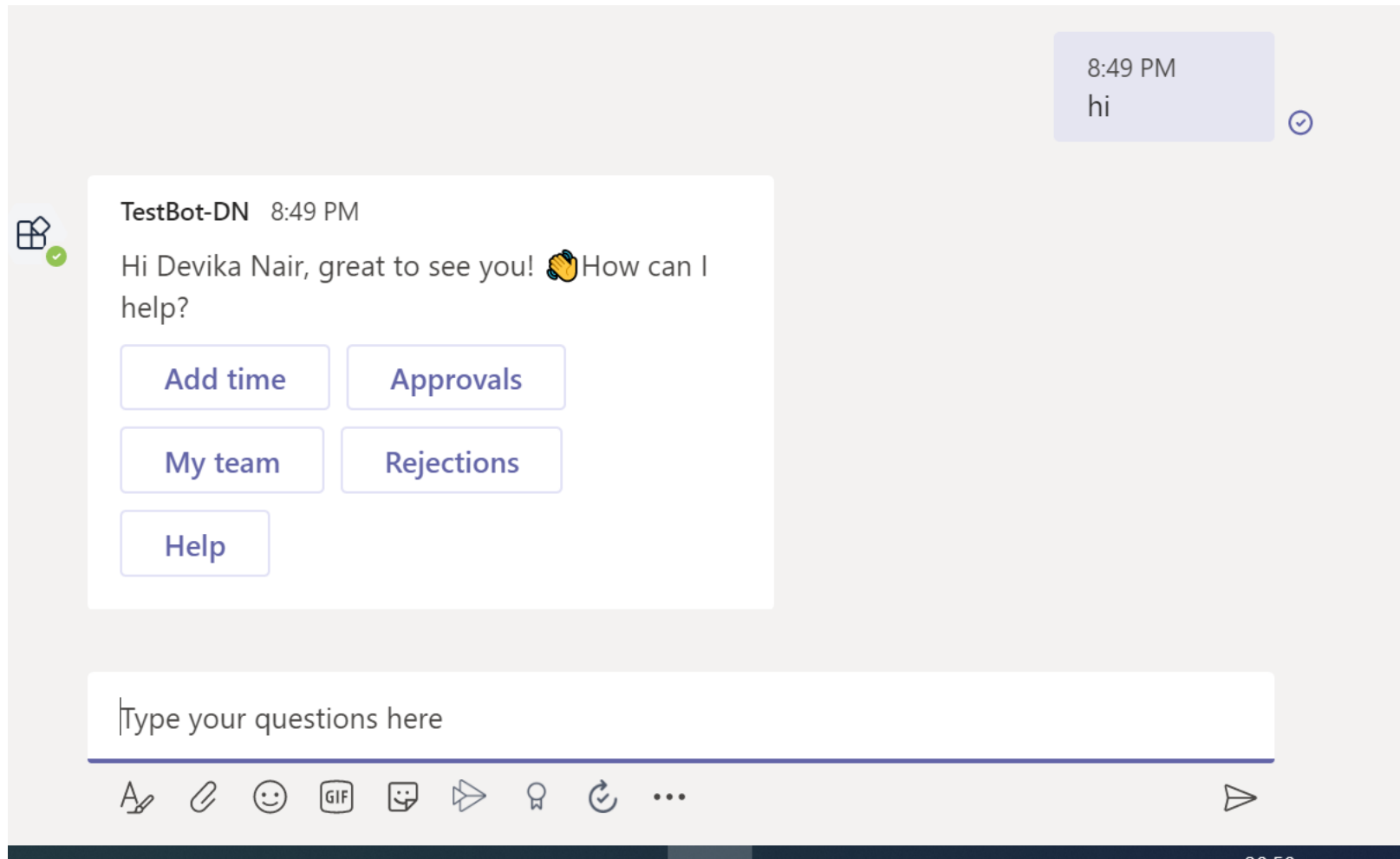
Feel free to use "help" command and I will walk you through all my capabilities



Type your questions here



UI DESIGN



UI DESIGN



Help



Introduction



Add time



Approvals



Feedback



My team



Projects



Request new project



Rejected timecards

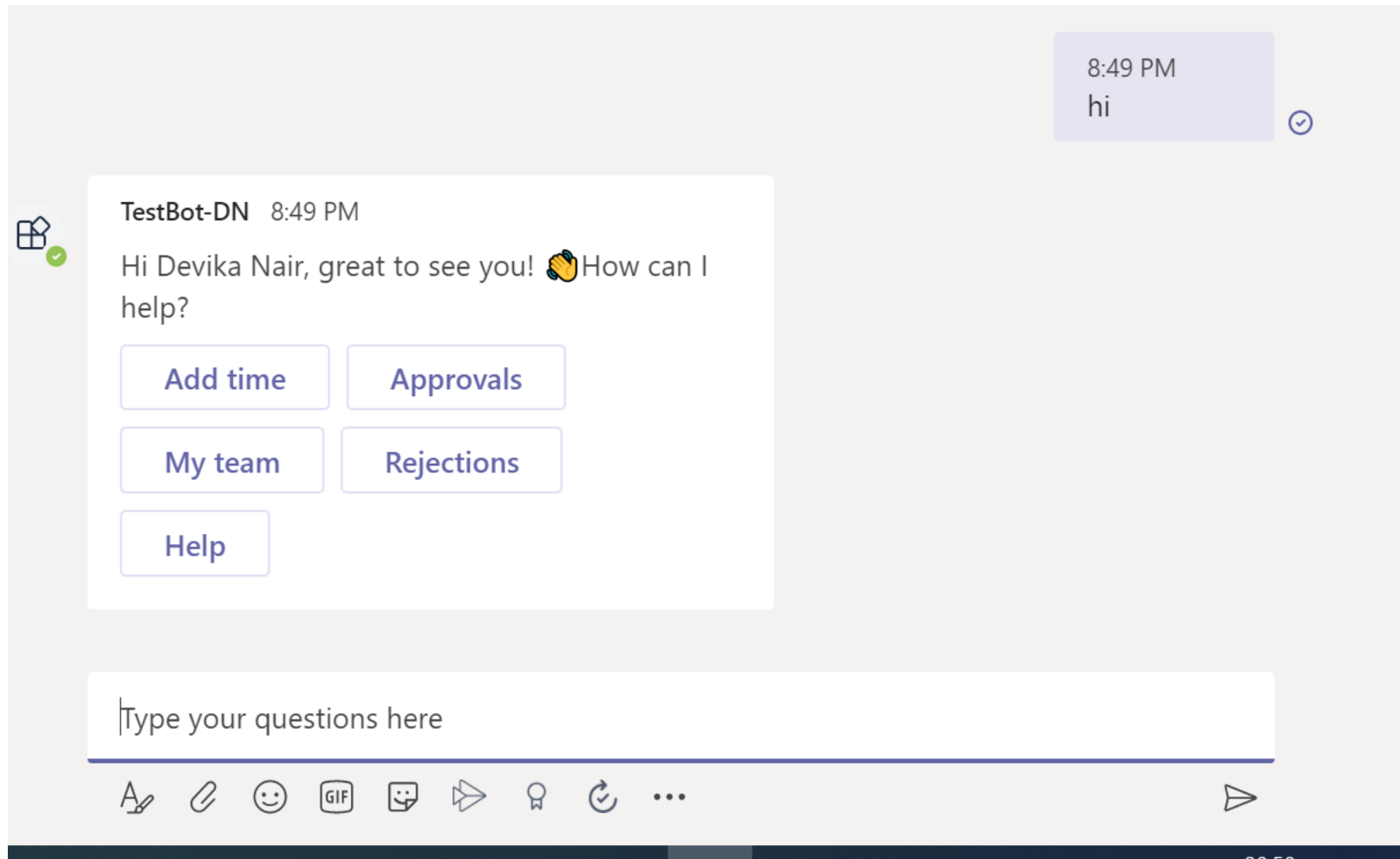


Set preference

Type your questions here



UI DESIGN



UI DESIGN



TestBot-DN 8:52 PM

Please select the week for time entry.

January 25th 2021

January 18th 2021

January 11th 2021

Type your questions here



UI DESIGN

January 25th 2021

January 18th 2021

January 11th 2021

8:52 PM

January 18th 2021



TestBot-DN 8:52 PM

Please add projects and percentage for the week of January 18th 2021 (Ex: Pepper 30% and Pebble 70%).

💡 You may type 'Show projects' to see all available projects.

💡 You may use the Project 'Leave' for any time off and 'Holiday' for a company holiday.

Type your questions here



UI DESIGN



TestBot-DN 8:52 PM

Please add projects and percentage for the week of January 18th 2021
(Ex: Pepper 30% and Pebble 70%).

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8:54 PM

pepper 30%,pebble 50%, basil 20%



TestBot-DN 8:54 PM

Timecard for the week of Total **100%**
January 18th 2021

Project

Percentage

Type your questions here



UI DESIGN

TestBot-DN 8:54 PM

Timecard for the week of
January 18th 2021

Total 100%

Project	Percentage
Pepper	30%
Pebble	50%
Basil	20%

Submit

Re-enter

Timecard for the week of January 18th 2021 submitted and sent for approval. 👍

Type your questions here



UI DESIGN

Timecard Approval



Devika Nair
Week of January 18th
2021

Total **100%**

Project

Percentage

Basil	20%
Pebble	50%
Pepper	30%

Approve

Reject

Type your questions here



UI DESIGN



Projects

- Basil
- Benson
- Chirp Support
- Cocoa
- CoreTech - General
- Crystal0
- Crystal2-B4B5
- Eagle



Type 'Request new project' to request for a new project.

Type your questions here



CONCLUSION



User can manage their work logs using natural languages without any need of external applications.



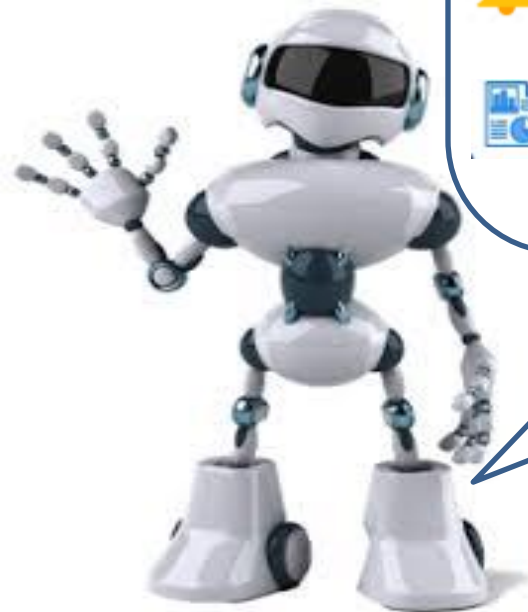
Manager can approve, Reject and comment the work log of employee through this chatbot .



Reminder functionality for managers and employees.



Provide consistent and stable time entry monitoring and reporting.





THANK YOU