Karachi Institute of Economics and Technology
CollegeofComputingandInformationSciences
FINAL YEAR PROJECT – 2023
PROPOSAL

SEMESTER	FALL2023	YEAR	2023-2024

TITLEOFPROPOSEDPROJECT
Virtual Talk Universe

Project Category(choose one)	✔ Product based	□Research-based

SUPERVISORINFORMATION(To be filled by the office)			
Supervisor Name:		Organization/ Designation	
Contact No:		email:	

STUDENT(S)INFORMATION			
S#	Student ID	Name	
1	11255	ABDULLAH JAWED	
Contact No:	03401243614	email:	abdullahjawed900@gmail.com
Expertise	React js, node js ,mongo db, React native,ASP.NET		
2	12359	Maham Farooq	
Contact No:	03343124974	email:	manofarooq475@gmail.com
Expertise	Python, c# , react js, react native, MySQL		
3	12398	Manahil Leghari	
Contact No:	03337451687	email:	legharimanahil@gmail.com
Expertise	c#, react js, Node js, SQLserver, pyhton		
4	10974	Madyha Siddiqui	
Contact No:	03350257659	email:	madyhasiddiqui12@gmail.com
Expertise	Python, c# , react js, react native, MySQL		

PROJECTAREA/TOOLS	
ToolsRequired:	ReactJS/Node/JS/WebGL/Blender/Unity/python, Text-to-Speech(TTS), NLP Libraries (e.g., NLTK, API)
Area/Specialization:	ML/AI/VirtualReality/Webapp

SUMMARY OF PROPOSED PROJECT(MAXIMUM 400 WORDS)

Problem Statement:- Loneliness is a common problem harming mental health. We're creating an AI virtual companion to provide company, emotional support, and uplifting conversations to combat loneliness and boost well-being.

Project Description:- The project's core objective is to craft an interactive and captivating user experience through the seamless fusion of a Virtual character. It enables users to engage in natural language conversations with this Virtual character, significantly amplifying user engagement and interactivity within driven games and applications.

- **Key Features(Current & Phase 2):** The project encompasses a suite of critical attributes to deliver a rich user experience:
- **Real-Time Natural Language Chats:** Users enjoy real-time, human-like conversations with the Virtual character.
- **3D Character Realism:** The character comes alive with 3D animations and expressions, elevating the conversational realism.
- **User Input Handling:** It adeptly manages user input, including text and even optional voice commands.
- **Natural Language Processing (NLP):** Equipped with NLP capabilities, its tailors' responses with context awareness.
- **Voice Recognition and Synthesis:** Optional voice recognition and speech synthesis enrich the interaction (Phase 1).
- **Global Accessibility:** Phase 2 introduces multi-language support and translation for a global reach.
- **Contextual Hints:** Also in Phase 2, contextual hints offer users guidance, simplifying their interaction.

This project aspires to cater to diverse applications, from immersive entertainment experiences to educational tools and beyond. It promises a holistic and engaging encounter, fostering a deeper connection between users and digital environments.

PROJECTOBJECTIVE(S)/OUTCOMES

Purpose:-
To use AI to help people feel less lonely and happier through friendly virtual companionship.

Enhanced User Engagement:-
The project can be designed to create engaging and immersive user experiences with in entertainment. Users can interact with virtual characters in a natural and conversational manner, increasing their engagement and enjoyment of the game.

SIMILARAPPLICATIONS(SIMILARITY/DISSIMILARITY)				
S#	Name of App	Link(URL/Play Store)	Similar Features	New Features
1	Unique idea			
2				
3				

FUNCTIONAL FEATURES(Must be in Bullet Form)

For FYP 1(At Least 70% of FYP):

●**Login Form**
●**Firebaseintegratin**
●**Google integration**
●**Concept Design (Define character)**
●**AI Characterdesign**
●**3D Modeling**
●**Animation(Expression)**
●**User Interaction**
●**User Interface (UI)**

FYP Report at the time of FYP1 declaration(Soft Copy)

- Chapter1:Introduction
- Chapter2:LiteratureReview/Process Review
- Chapter3:AnalysisDiagrams

ForFYP2:

●**Character Customization**
●**Character's Response(Joke style, normal style)**
●**Face expression**
●**Joke Api**
●**Text-to-Speech**

FYP Report at the time of FYP2 declaration(Hard Copy)

- Complete FYP Report
- Panaflex (2x5ft.)

Additional Features by Jury Members:

For Proposal Defense Purpose

PROPOSEDADVISORYCOMMITTEE		
S#	**Faculty Name**	**Signature**
1		
2		
3		
4		

FYP COMMITTEE			
S#	**Member(s) Name**	**Designation**	**Signature**
1	**UsmanKhan(FYPHead)**	Asst.Professor	
2	**DrSalmanAhmedKhan/DrNomanIslam(Headof the Department)**	Professor	
3	**Dr.MuhammadKhalidKhan(AssociateDean&Director CoCIS)**	Professor	
	Date	00/00/0000	