ConceptDesign for Empathic Engine

Zhuang Chang

January 3, 2021

Abstract

this document collects the requiremnts of Empathic engine

Contents

1	Intr	roduction		
2	Framework			
		Server		
		Client		
		Content render		
	2.4	Database		
3	Functions			
	3.1	Share Information		

1 Introduction

Empathy is sharing what you see, what you hear and what you feel.

2 Framework

2.1 Server

wampserver is a simple Web server and can be used to provide Mysql database, Apache web server and PhP interpreter.

EmpathicEngine is a socket based server.

Server-¿send point to point broadcast

Byteconverter input should be class, int, float, double and so on. Output should be char array. 0 data type 1 data length 2 data value

2.2 Client

 ${\bf AgentClient,\,AngentFactory\,\,Robot/invisible\,\,Agent}$ other types of clients controlled by human

2.3 Content render

2.4 Database

3 Functions

3.1 Share Information

- 1) share gameobject's postion, rotation and scale
- 2) share video stream among MR clients
- 3) share voice or vocal clips

Emojii pictures
music/voice clips
code controlled animation
AI networks
models and materials