Introduction

Today, psychological treatments are still very popular, people may need these therapies because of their nature. In these therapies, sometimes the therapists cannot analyze the client well enough and the duration of the therapy may be longer. Today, digitalization also contributes to every aspect of our lives. We are developing a project, thinking that applying this digitalization in the field of health will make people's lives better. MAI Therapist is a Project designed to help Psychologists analyze therapy sessions. Therapists will use this app in their clinics. When using the MAI Therapist, therapists will have an analysis of how the client is feeling in a particular conversation. These feelings can be happiness, tension, anxiety, anger, calmness, feeling peaceful. To report these feelings, we will use a video camera to record the session and artificial intelligence that analyzes the client's emotions, gestures, facial expressions and tone of voice. At the end of the session, the therapist will have an analysis result that includes dialogues. Therapists can improve their approach by comparing their analysis with the MAI Therapist analysis with the help of frontend and backend development tools and see if there is a point they missed.

Proposed System

Functional Requirements

1. Register
2. E-mail verification
3. Login
4. Forget password
5. Renew password
6. Show a list of the patients
7. Show a detailed information of a patient
8. Update a specific patient
9. Add or remove a patient
10. Download transcript of the session
11. Download analysis of the session
12. Payment
13. Show analysis and transcript

Non-functional Requirements

Safety Requirements:

1. System shall back-up all data in safe. This requirement prevents any data loss.
2. Due to any possible hardware problem, data must be saved in a cloud

Performance Requirements:

1. In every request, server must send a response in five seconds maximum.
2. System should run 7/24 without any error
3. Multiple users can use the system at the same time.

Security Requirements

* Since we store very sensitive data, there shouldn’t be a secuirty leakage.
* Key management: Patient’s sensitive information must be encrypted.
* Backup: We must have a back-up database in case of any data loss.
* Captcha: System must prevent unnecessary traffic by a captcha if we get too many requests from the same IP.
* Log system: System must log every action of the users.

## Software Quality Attributes

* Reliable: System must function properly.
* Simplicity and usability:  System shall be designed with these attributes. They provide easy maintenance for next users.
* Efficient: System must be efficient that not unnecessarily use of memory, ram, cpu.
* Portable: System must be cross platform. Desktop, mobile, iOS, android etc.
* Integrity: Any unauthorized operations must be prevented.
* Flexibility: Additional features can be easily added to the current system.
* Reusability: The System designed reusable for any car rental system.
* Maintainability: System should be designed as maintainable due to creating a continuity system.
* Adaptability: System shall be designed as open to changes and updates. When an update is needed, it must be adaptable to the system easily.

Pseudo requirements

Front-end must be created by javascript especially the vue framework.

All dependencies that will be included in the project, must be widely used already.

Code base must be clear and well documented.

Server must be implemented by python.

[L4\_Requirements\_Elicitation.ppt (tum.de)](https://ase.in.tum.de/lehrstuhl_1/files/teaching/ss07/SE/SE2007_Lecture4.pdf)

Glossary

VueJS : Progressive Web Application for developing webdev related projects. It is a framework of JavaScript and it is a frontend development tool to make its users to interact the Project easily.

Python : Scripting language for backend development.

Cross-Platform : Applications that can be run on both phones, computers and tablets are called cross-platform applications.

Server : Server is a general name given to computer units that run resources or some services (FTP, E-Mail, Web Site) that clients (users) can access, use and share in computer networks.

Captcha : A security measure called query-response validation, also known as CAPTCHA (Fully Automatic General Turing Test for Human and Computer Discrimination), is used. Protection against spam and encryption is aided by CAPTCHA.