# **Emotional Assistant**

# Overview

- Initial idea
- Problems / Questions
- Expert interview
- Technical Progress
  - User Interaction Prototype
  - Use Case Scenarios

## Initial idea

#### • <u>Goal</u>:

Assist people who have recently experienced *Burnout* in reintegrating into their workplace

## Initial idea

- Goal: Assist the user in reintegrating into workplace after burnout
- TEK Model

(Training Emotionaler Kompetenzen nach Berking)



## Initial idea

- Goal: Assist the user in reintegrating into workplace after burnout
- TEK Model
- Character:
  - React to user's mood via mimicry
  - "Kindchenschema": soothing appearance, and convey artificial agent's limited capabilities
- Animal assisted therapy (AAT)





## Problems / Questions

- How should the pet behave?
- What behaviours might be counterproductive towards helping the patient?
- What kind of feedback should the character give?
- How does therapy with a burnout patient really look like?
- How does an actual therapist view our idea?

# **Expert interview**

- Goal: Assist the user during time between inpatient and outpatient treatment (therapy)
- Support in psychoeducation and emotion regulation
- Integration of knowledge into everyday life
- Activate the patient
- Character
  - cute vs. cartoony
  - mimicking or not mimicking

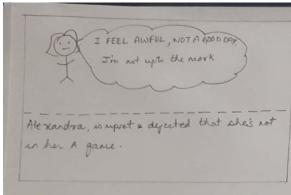
## Incorporation of Interview suggestions

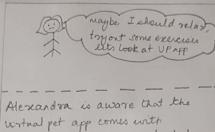
- More engaging interaction design: continuous presence of virtual character to improve engagement and relationship with character
- New feature: suggest small activities and give encouraging feedback
  - Leave emotionally sensitive topics to actual therapist
  - Give user the feeling of not being alone when time between real-life session increases
- Keep muscle and breathing relaxation sessions
- Increase focus on psychoeducation

## **Technical Progress**

- Emotion detection through voice characteristics
  - Using EmoVoice (implemented in SSI)
  - Not very accurate yet → Improve
- 3D avatar displayed through jMonkeyEngine, embedded in VSM
  - Possible to display characters and control through VSM
- Storyboards and prototypes for User Interaction

# Storyboards

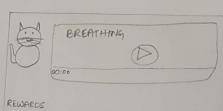


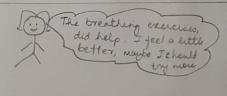


exercises options & wants to try.



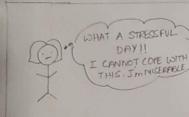
upon choosing exercises, Alexandra so presented with few exercises options.



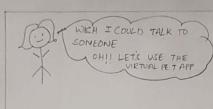


Alexandra chooses the exercises k corresponding exercise is played with pet assisting & finally rewords to wan

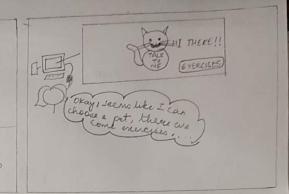
Alexandra feels relaxed a wants to try more. Getting rewards also makes her feel better.

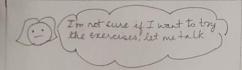


Alexandra, has a stressful surproductive day, feels low a nuserable.



Alexandra, nearts to talk to semeone, mostly someone who doesn't judge her sutuation. She turns towards the Virtual Pet for assistance



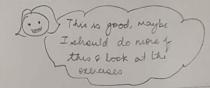


Alexandra, open the Decktop App, Nutual pet our find the options the App offers, which is talk to the pet or try few exercises.



Alexandra, names her pet & talk to the pet.

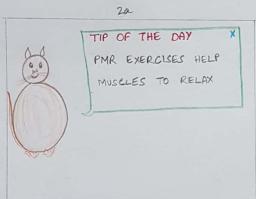
Tom listens to Alexandra Remotes basic enotions, like attentive ears, wagging tol, pur.

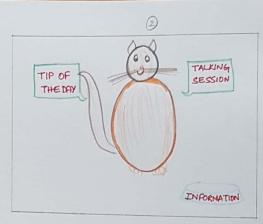


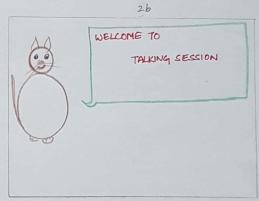
Afercandra, likes the talking ression & would like to do it often a maybe try the exercises.

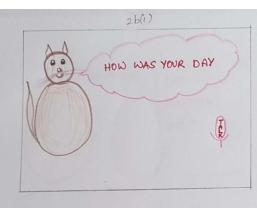
# Lo-Fi Prototype











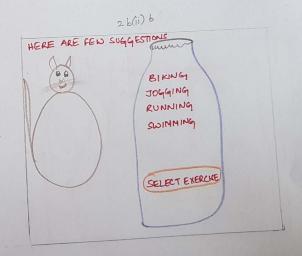


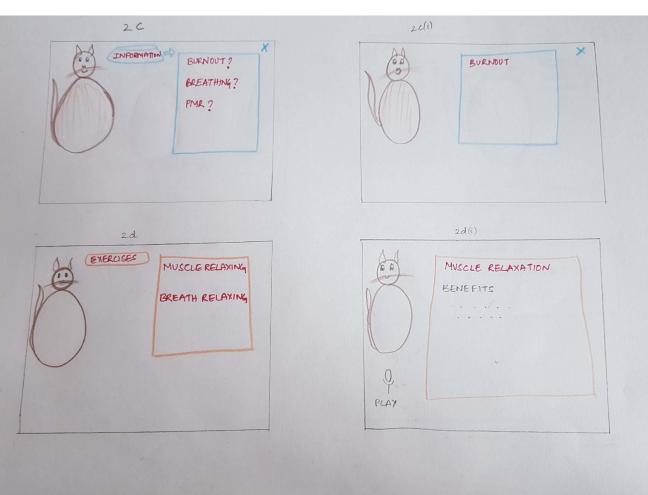
DISTANCE:

DURATION:

Well, try this

again tomorrow





#### **Use Case Scenarios**

1: Muscle Relaxation

**Exceptions:** 

**Primary Actor:** User

EX 1.1. The system is not running properly.

**Goal:** User completes the muscle relaxation exercise.

**Preconditions:** 

**Priority:** High priority

The system is running properly.

Frequency: High

User has done with introduction part.

Scenario:

- The user opens the Emma application on his system.
- The user selects the Muscle Relaxation mode.
- The user follows application timer and instructions.

#### **Use Case Scenarios**

2: Breath Relaxation

Exceptions:

Primary Actor: User

er EX 1.1. The system is not running properly.

**Goal:** User completes the breath relaxation exercise.

Preconditions:

**Priority**: High priority

• The system is running properly.

Frequency: High

User has done with introduction part.

Scenario:

1. The user opens the Emma application on his system.

The user selects the Breath Relaxation mode.

3. The user follows application timer and instructions.

#### **Use Case Scenarios**

3: Track Positive Activities

**Exceptions:** 

**Primary Actor:** User

EX 1.1. The system is not running properly.

**Goal:** Track the user's activities.

**Preconditions:** 

**Priority:** High priority

The system is running properly.

Frequency: High

#### Scenario:

- The user opens the EmmA Application
- Chooses the activities which the user has done for the day

Thank you for

listening

