Risk detection in Smart Mental-Health Applications

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Overview

- Risks in mental-health applications

- Exploration of issues

- Topics to consider
    - How to detect risk
    - When to act
    - Where to place responsibility
    - Evaluation

Context

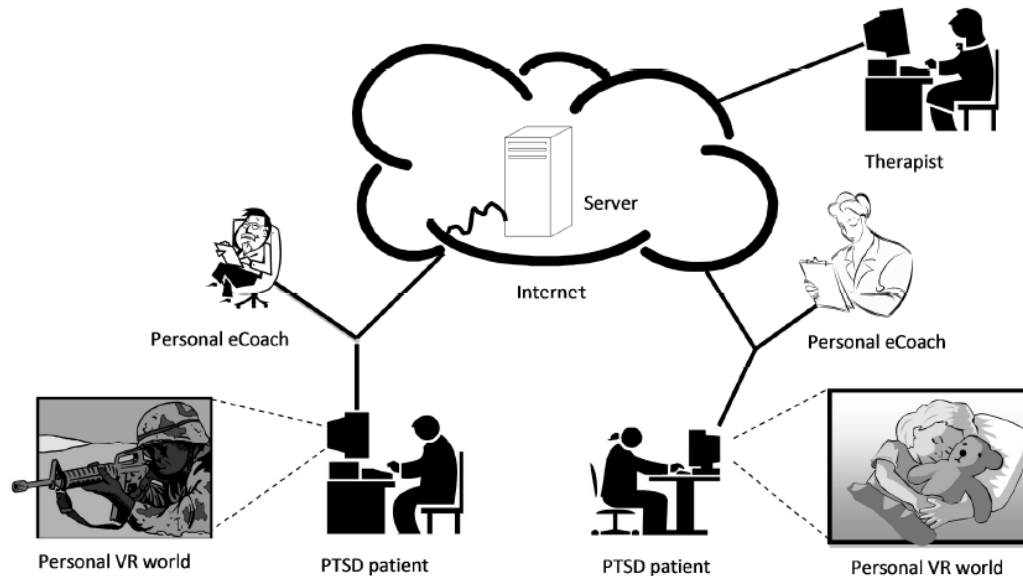- Post-Traumatic Stress Disorder

Context

- Post-Traumatic Stress Disorder
- Therapy application
- Virtual Coach

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- Risks?

Context

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- Virtual Coach
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- Exclusion criteria
  - History of suicidality
  - PTSD not primary diagnosis
  - Etc.

Risks

What if things change during therapy?

Risks

What if things change during therapy?

How do we pick up on this?

Risks

What if things change during therapy?

How do we pick up on this?

What do we do when a risk exists?

Exploration

- Scenarios based on PTSD therapy software & virtual coach
- Focus on suicidality

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  - Ask suicide-specific question only if existing progress indicate relevant
  - Act when serious suicidal thoughts
  - Automatically contact therapist on risk

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- Discussion with experts

Topics to consider

- How to detect risk
  - What to ask
  - When to ask

Topics to consider

- When to act
  - When to scale up
  - Necessary infrastructures

Topics to consider

- Where to place responsibility
  - Who will act on a risk
  - Privacy vs. security
  - Expectation

Topics to consider

- Evaluation
  - How to evaluate?

Questions?

Discussion

- How to detect risk
- When to act
- Where to place responsibility
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- How to detect risk
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- Other risks?
- Anonymous applications?
- Agreements beforehand?
- Added value of avatar?