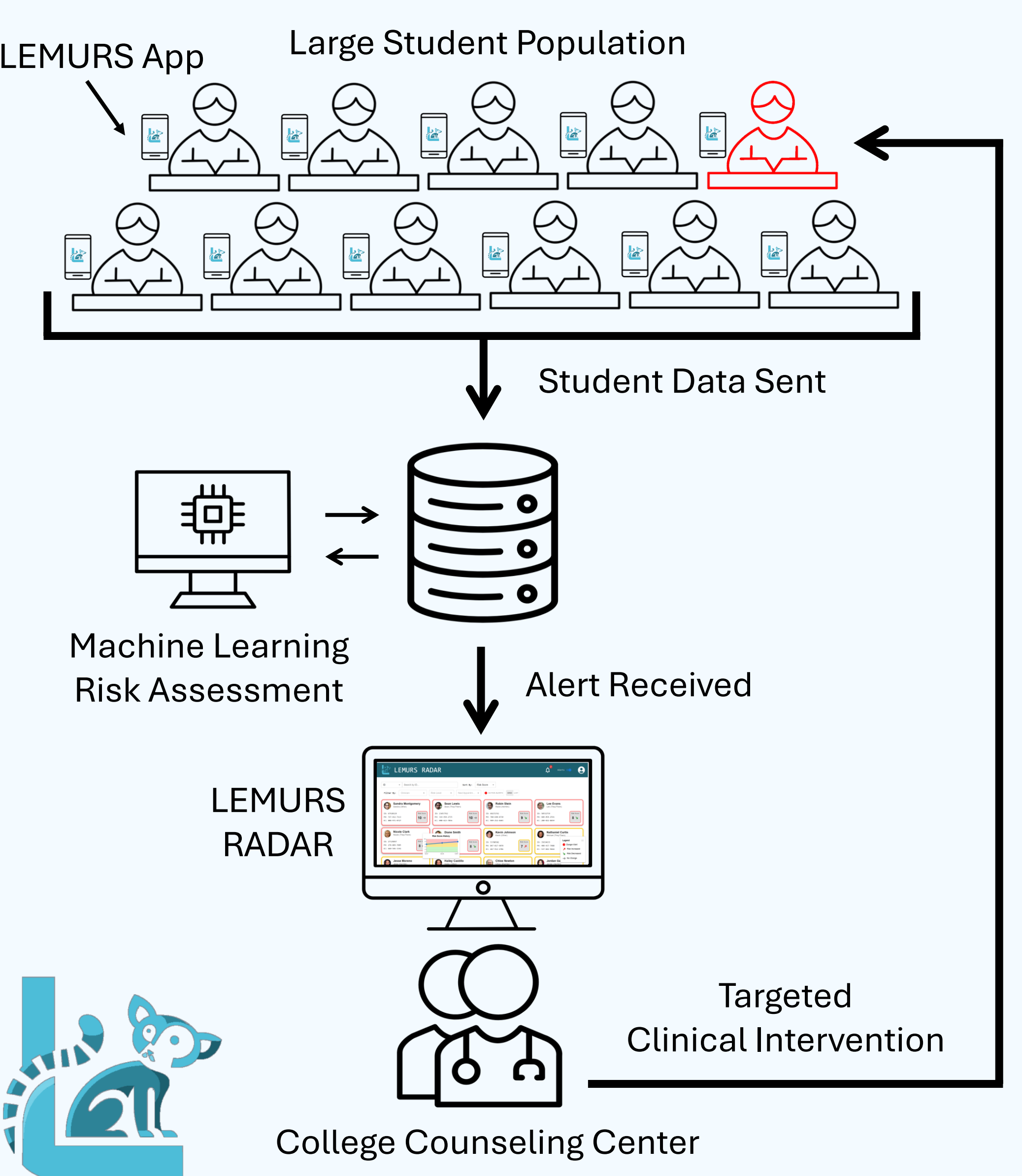


LEMURS RADAR: Interactive Dashboard for Risk Alerting of College Students

Skyler Dooley, Jeffrey Li, Daniel Mastrobuono,
Nixon Showalter, Willem van Oosterum
Advisor: Professor Elke Rundensteiner
PhD Mentors: Peter VanNostrand, Dennis Hofmann

Suicide is the 11th highest cause of death in the U.S.
 2nd highest cause of death in college students
 Severe depression in young adults rose from 23.2% to 41.1% in the past decade

How Can We Streamline Suicide Risk Monitoring On College Campuses?



Collaborative Co-Development with Stakeholders

Clinicians from:
4x **WPI Student Development & Counseling Center**
3x **UMass Center for Counseling and Psychological Health**

Total Interviews:
4x **Round 1**
4x **Round 2**
6x **Round 3 (3x Unique)**

First Round – Clinical Basis
“What are the key challenges in detecting suicide risk?”

- Low Reporting
- Confidentiality
- Hospitalization

Second Round – Clinician Feedback
“What factors are used to determine if a student is in crisis?”

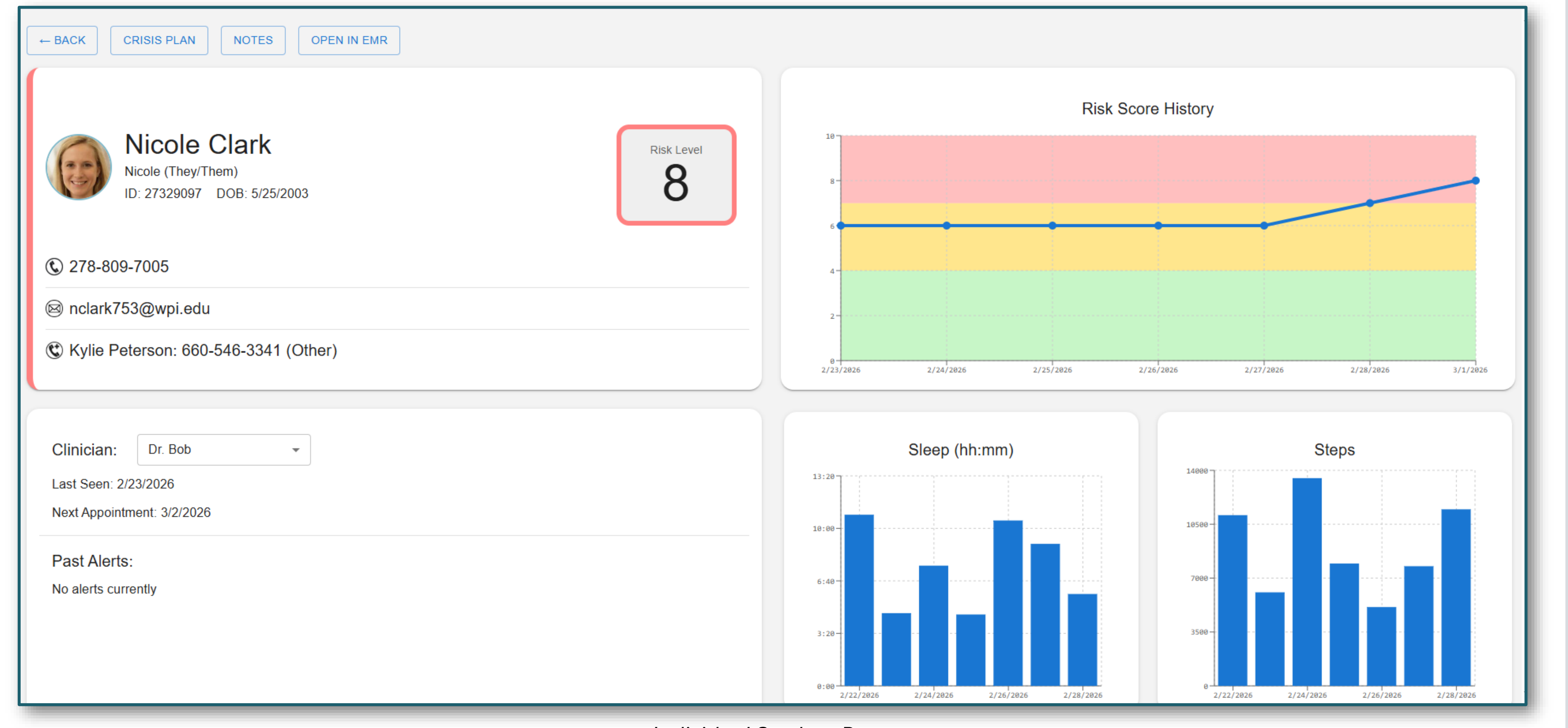
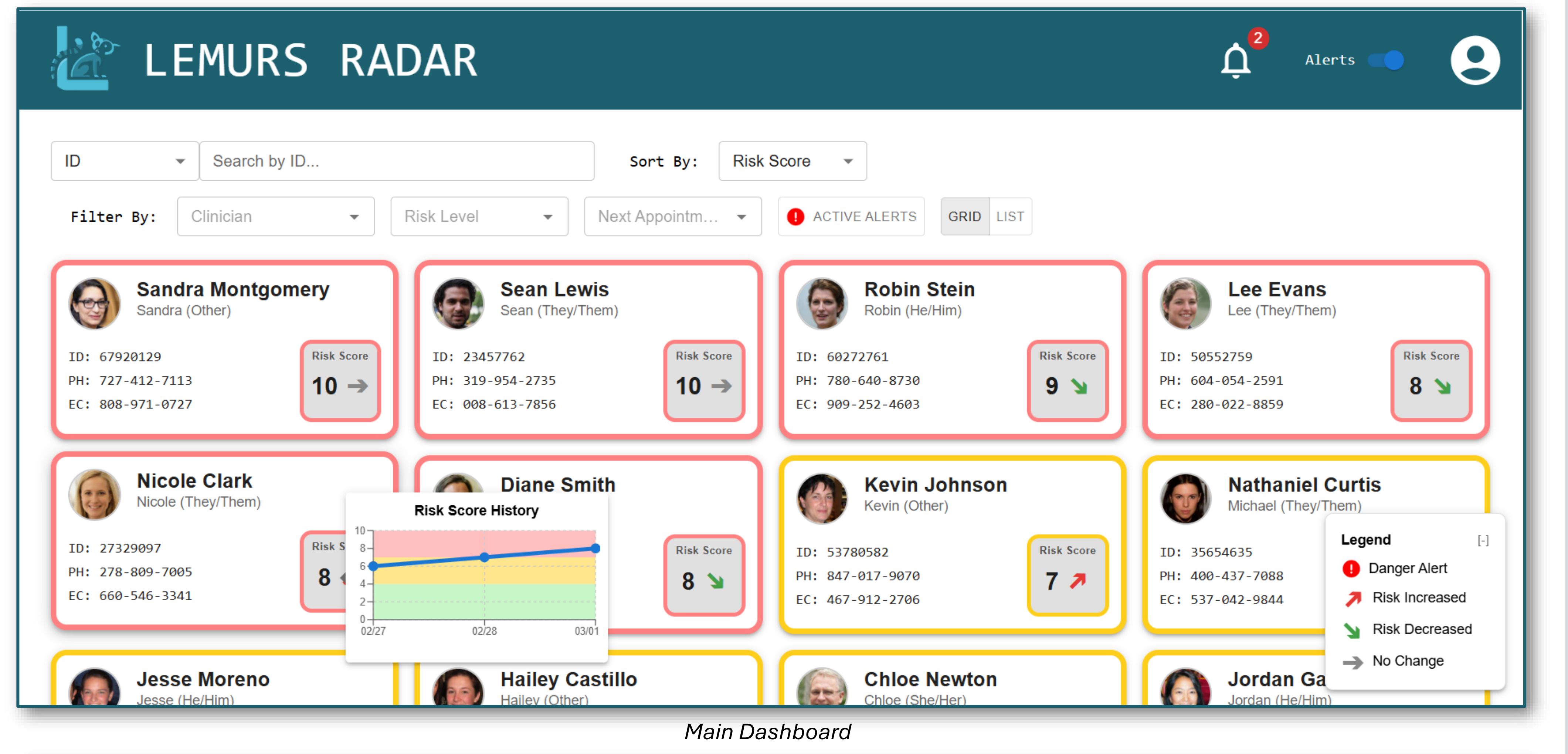
- Sleep
- Steps
- Social Interaction
- Screen Time

Third Round – Usability Testing
“You have received an alert concerning a student, what will you do now?”

- Investigate Profile
- Contact Student

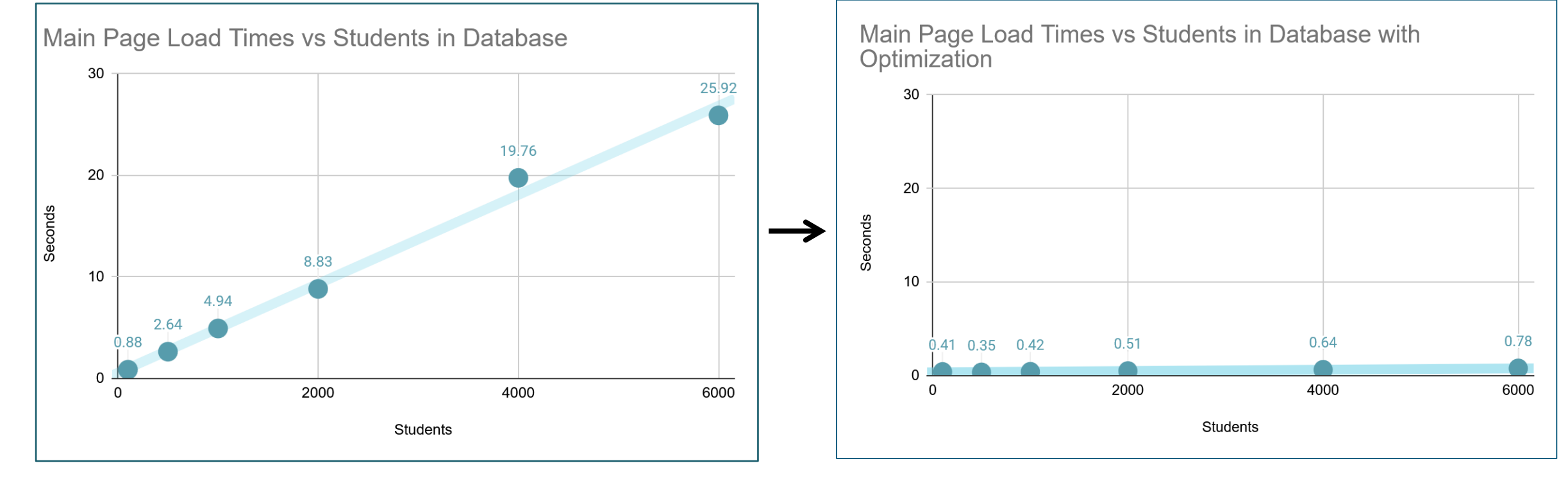
Clinical Dashboard

Leveraging **Early Mental Health Uncovering Risk for Suicide Risk Assessment Data And Reporting**

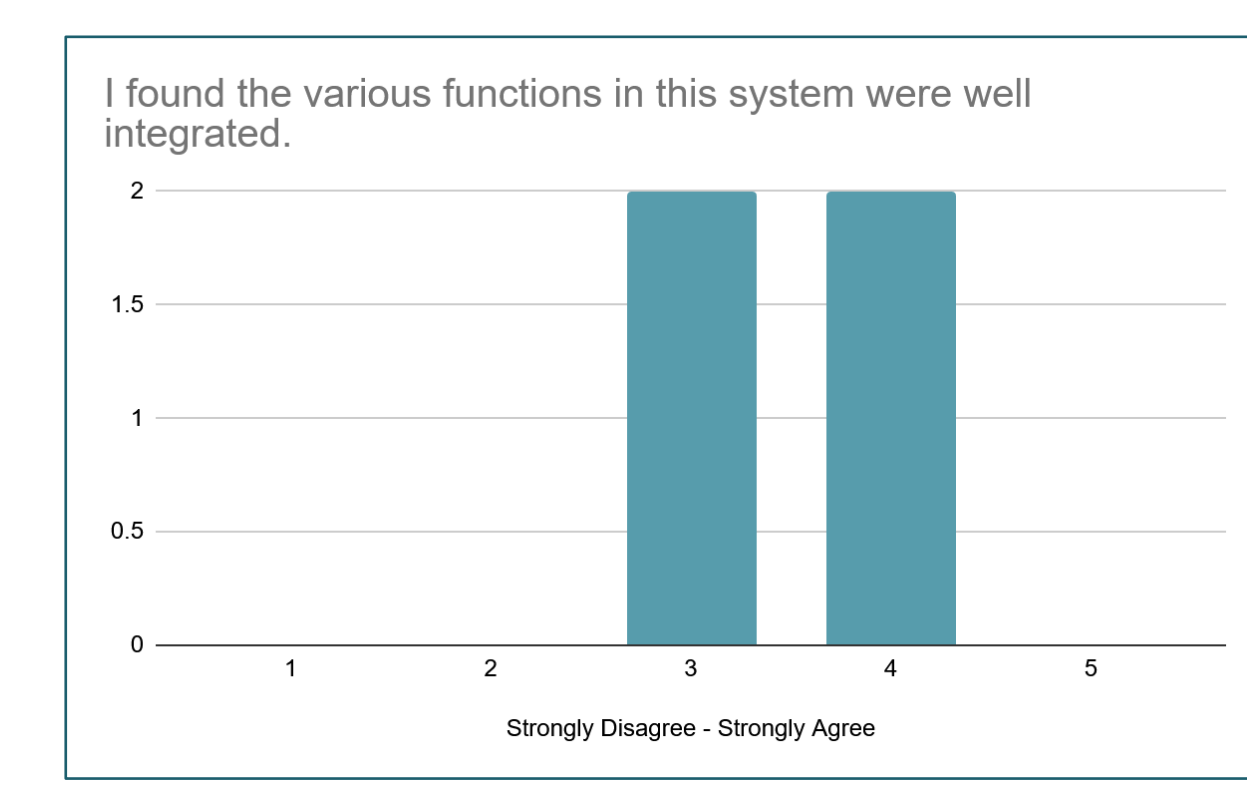


Evaluation

Load Times with Optimization

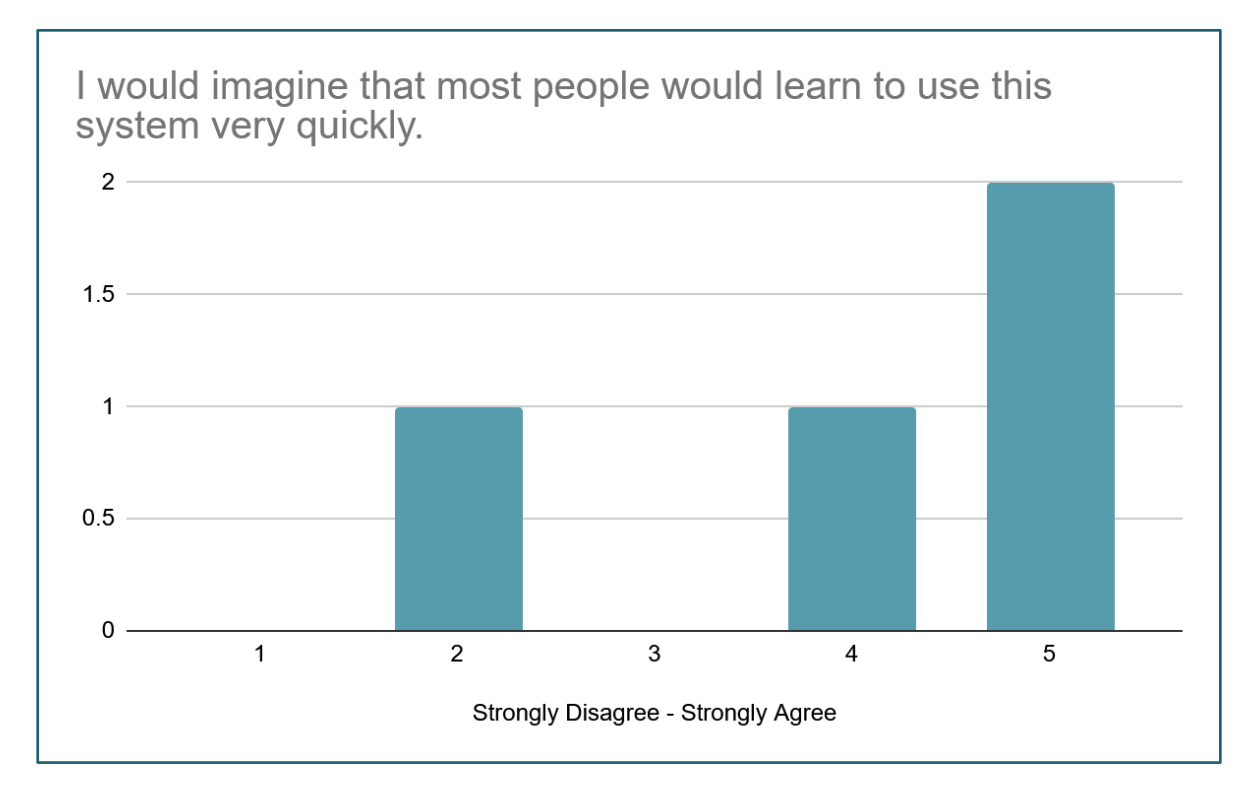


“Ethics always are to do the least intrusive intervention possible” – UMass Clinician



“Clinicians need to work with researchers and researchers need to work with clinicians” – UMass Clinician

“It's intuitive. [For] anyone who's used some new software, I think it's pretty easy.” – WPI Clinician



Future Work

Web Security

Ethical Considerations

EMR Integration

Acknowledgements

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