TEAM 7
PROJECT VERUS

MUHSIN GÜREL, KHALID ALQINYAH, PHILIPP WEBER, RICHARD TRAN, AND MICHAEL MULLEN
WHAT IS SCHIZOPHRENIA?

- A life long mental disorder involving a breakdown in the relation between thought and emotion that leads to a faulty perception of reality
SYMPTOMS AND STATISTICS

• Common Symptoms:
  • Delusions
  • Hallucinations
  • Disorganized Speaking/Thought

• Statistics:
  • 2.2 Million people in America (about 1% of world population)
  • Around 20% of that commit suicide
  • One of the highest teen suicide rates of any mental disease
FEATURES

- Auditory hallucination detection with Google Glass
- Visual identification feature with Google Glass
- Eye Tracking Diagnostics with Google Glass and EyeTribe
**AUDITORY**

- Google Glass will be able to identify if what the user has heard is real.

- Google Glass will provide proper feedback of the audio of the user’s current environment.

- Diagnostic test: If the user has heard a noise that is not present, then the user has a probability of having the mental disease.
VISUAL HALLUCINATIONS

- Google Glass will be able to display a normal and mirrored image of what the person is seeing.
- Hallucination will not show in both images.
- Diagnostic test: If hallucination is present in both images then patient has a high probability of a stronger case of this mental disease.
SMOOTH PURSUIT DIAGNOSTIC

• Those suffering from Schizophrenia are unable to perform *smooth pursuit eye movement*.

• Identifies if the user has signs of Schizophrenia by running a smooth pursuit diagnostic title.

• Report probability of the user having a mental disorder.
<table>
<thead>
<tr>
<th>W</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FOCUS</strong></td>
<td>Setup For Devices And Environment</td>
<td>Store Audio And Visual Data From Devices</td>
<td>Data Processing Audio To Text Transform Eye Coordinates To Screen</td>
<td>User Interaction Respond To Audio Eye Diagnostic App</td>
<td>Analysis And Report Users Mental Health Find Test Group</td>
<td>Demo</td>
</tr>
</tbody>
</table>

**TIMELINE**
“Imagine if you suddenly learned that the people, the places, the moments most important to you were not gone, not dead, but worse, had never been. What kind of hell would that be?”

-A BEAUTIFUL MIND (2001)