

EYE VISION

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PROBLEM

The COVID-19 pandemic caused a surge in telemedicine appointments and some patients skipped eye care visits altogether and many people are still avoiding eye exams. Also, a shift to online learning by many schools, children are spending even more time looking at screens. Staring at a screen for long stretches without taking breaks can cause symptoms like eye fatigue and blurry vision. They might be having very low eye vision and this problem can be solved by regular eye exercises and improving sitting postures. An instant eye check up could be helpful for their parents as it would alert them that they might need to consult an ophthalmologist soon. Also, some are having 20/20 vision but might be suffering from astigmatism, age related macular degeneration, cataract, diabetic retinopathy but they are not aware of such defects and carry them life long which might be harmful for their well being.

SOLUTION

Between visits to the eye doctor, some patients can turn to eye health apps. These apps don't replace a comprehensive eye exam by an ophthalmologist but they may help manage ongoing eye conditions and alert when a doctor's input is needed.

FEATURES OF APP

1. An optotype similar to the one used by an ophthalmologist would be displayed on the screen to measure the visual acuity. After displaying each letter in the optotype, the user will be asked to choose among the options what did he/she saw.
2. Tumbling C chart will also be available for smaller children and people who can't identify letters.
3. Results will be shown for each eye given in percentage form of visibility.

4. Lot of users might be suffering from colorblindness , a test would be available for that too.
5. In the navigation bar, an eye exercise test would be available which users can perform on a weekly basis and their activities would be recorded.
6. Users would be able to view all their eye check ups and their results in the history page.
7. A page would be available for spreading awareness about other eye defects and remedies for the same, helping to maintain body posture while working on a computer, and some tips for maintaining good eyesight.