retinaid

Visual assistance for patients of Vitreous Haemorrhage
and Retinitis Pigmentosa

The Team

Taniya Seth

PhD Research Scholar • Development Enthusiast

Tapati Seth

Mother • Homemaker for almost 40 years • Loves cooking and singing • Suffering from Vitreous Haemorrhage for more than 5 years
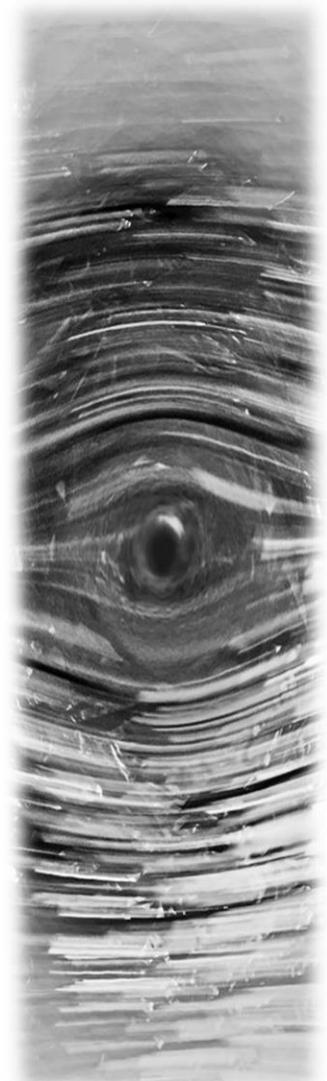
The Problems

Vitreous Haemorrhage

Appearance of spots or floaters causing blurring of normal vision. Causes mainly include the following:

Damage to normal blood vessels

Growth of abnormal blood vessels
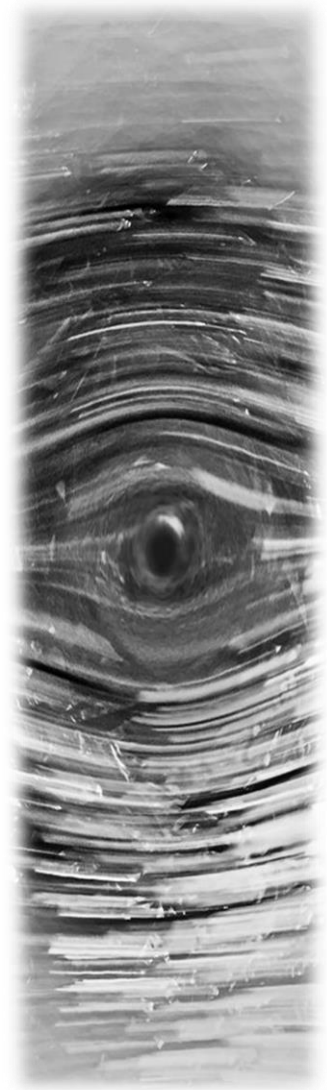
Bleeding from various parts of the eye

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The Problems

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Retinitis Pigmentosa

A group of eye diseases leading to damage of photoreceptor cells of the retina.

It is an inherent disorder caused by gene mutations sending faulty messages to the retinal cells.

Set them apart...

Difference

There is a significant difference between the vision of people suffering from these two problems.

VH Vision

RP Vision

No object is mysterious.

The mystery is your eye.

~Elizabeth Bowen

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How much?

Statistics

The occurrence of both the diseases is very common

7

out of 100000 VH cases worldwide

1

out of 4000 RP cases worldwide

Solution...

Retinaid

Retinaid is a software based visual assistant for people suffering from Vitreous Haemorrhage or Retinitis Pigmentosa.

Mainly developed as an Android application, Retinaid helps these people to carry out their everyday tasks in a smooth manner. It provides the following options:

Retinaid Magnifier for Android • Retinaid Scan and View • Retinaid Camera • Retinaid Navigation • Retinaid Audio Assistance

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Who and what?

Team Contribution

Taniya and **Tapati** both conceptualized the idea of developing Retinaid.

Tapati being a patient of Vitreous Haemorrhage presented insights and details on the problems in her vision, and that what could be the possible solutions for the considered problems.

Taniya then developed the wire-frame of the application depending on the insights provided by using her additional knowledge on Android applications. She is now working on the real application.

Whatever makes an impression on the heart seems lovely in the eye.

~Saadi