# **Emotion-Driven Movie Evaluation with Wearable Tech**

# in cooperation with MoveMe

Goldsmiths



rating films

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#### **Abstract**

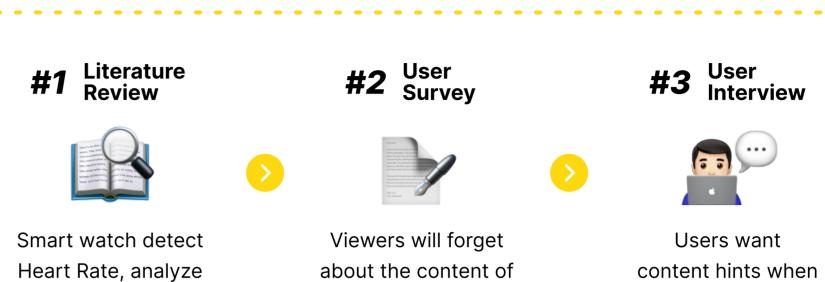
The project aims to enhance **MoveMe** platform's recommendation accuracy to users by utilizing objective data. Users contribute to this by wearing wearable devices that monitor their heart rate (ECG) during movie watching, allowing analysis of emotional **fluctuations**. This data is used to generate comprehensive movie summary reports, enabling users to provide accurate ratings based on objective metrics.

#### Introduction & Background

Online movie ratings have become a common practice among users in today's internet society after watching films. However, research indicates that users' memories of movies tend to **fade over time**, potentially leading to inaccuracies in ratings due to viewing habits and memory effects. To enhance the accuracy of algorithmic recommendations, addressing the memory biases in the user rating process becomes crucial.

# **Study Methodology**

user Emotions

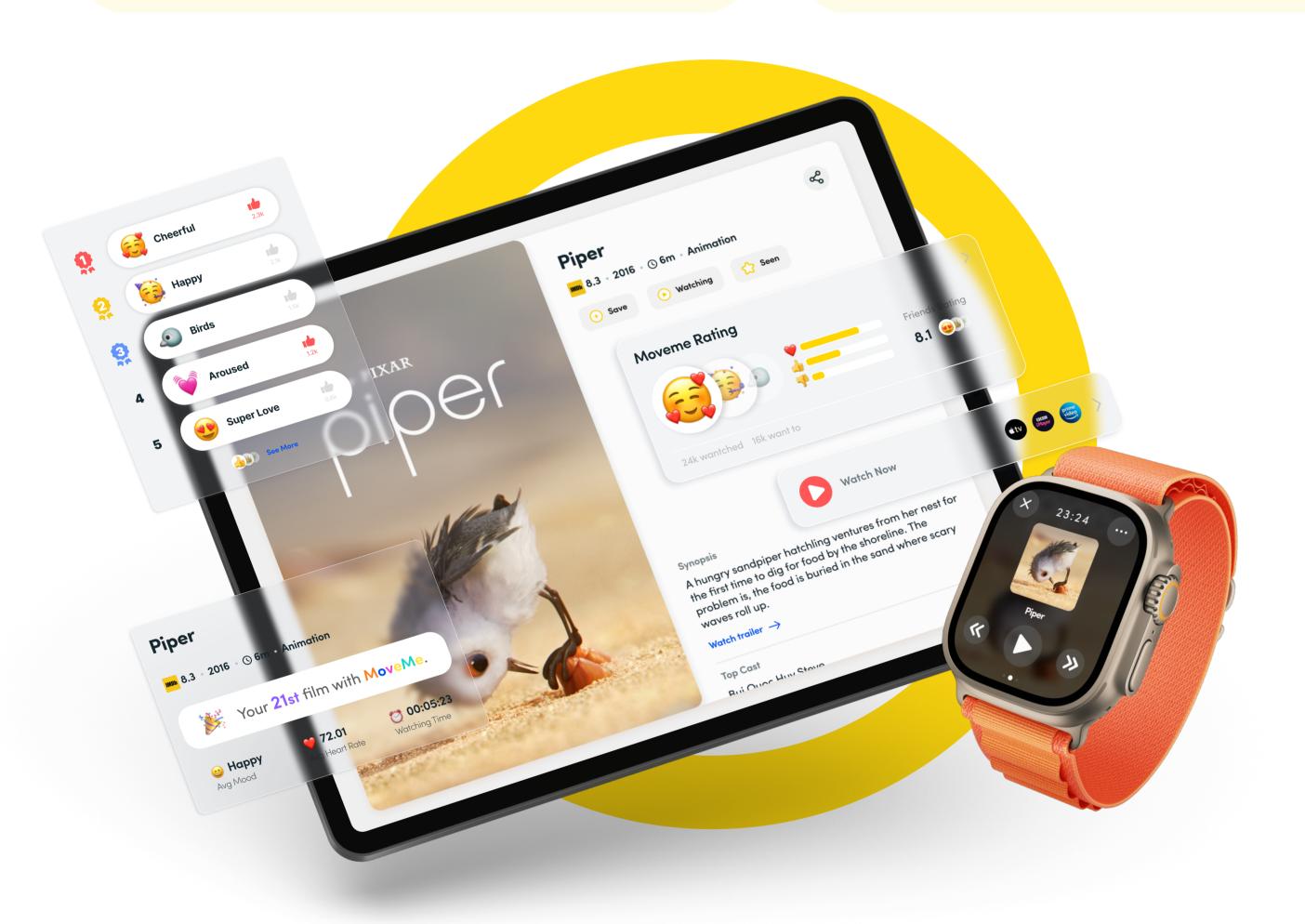


the film

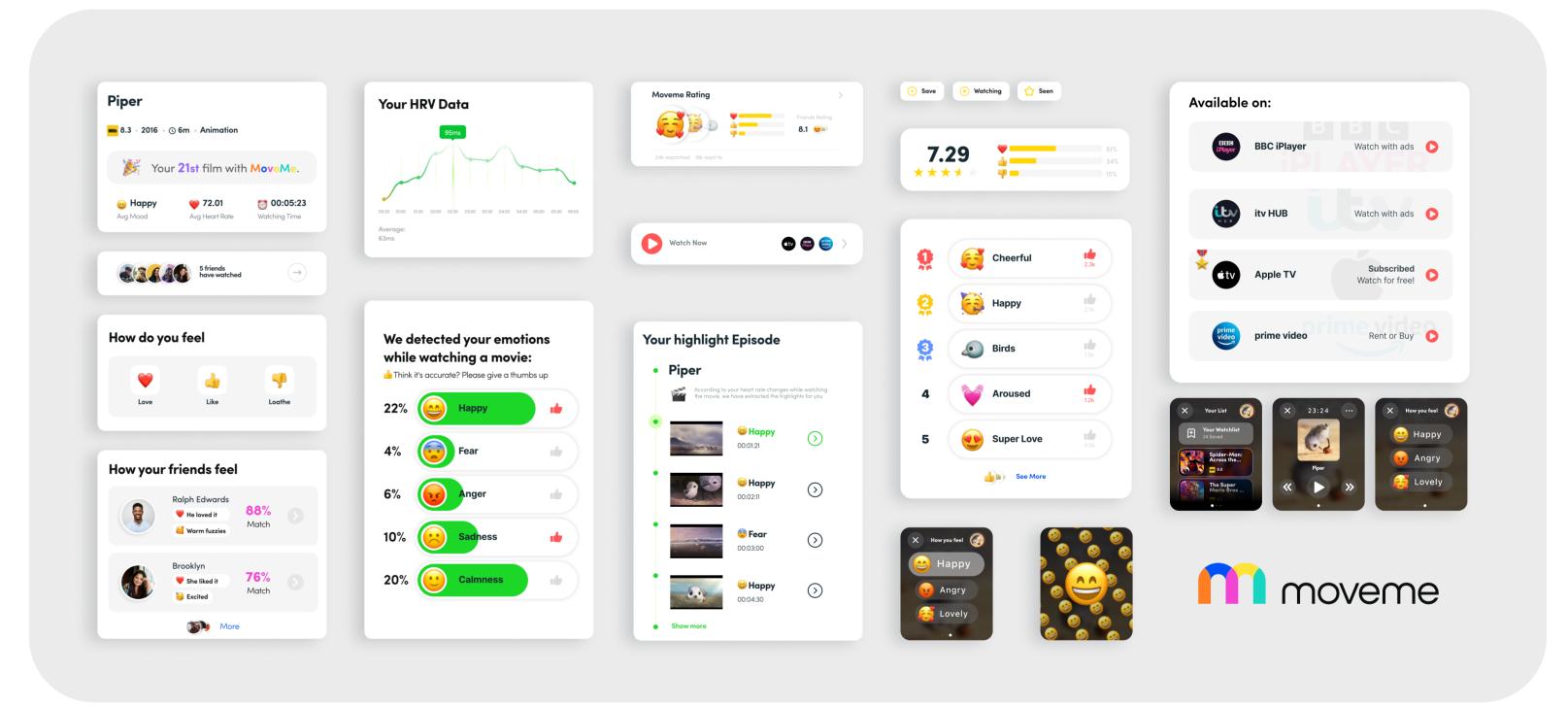




Improve the user experience when watching movies and rating



## Diagram / Design



#### **Testing & Evaluation**

# #1 Testing Purpose

- Problems encountered by users in the process of using the product
- The user's attention in the process of using the product
- Initial product users are content with functions to retain or troubled by features requiring improvement.

# **#2** Testing 8-People Methods

oro

**Eye-Tracking** Glasses Analyze user attention and

User Interview Dig deep into user needs and causes of problems trajectories



## #3 Testing Results

- Optimize the way to switch to streaming media sites
- Bullet chat can be adjusted or closed
- Viewing report content and module rearrangement

#### Conclusion

The project aims to utilize a smartwatch for detecting users' emotional changes during movie viewing, aiding them in more accurately rating the movie's progression. This assists the MoveMe in refining recommendation accuracy.

Multiple research approaches were employed to understand genuine user needs. This involved collecting 84 survey responses, conducting 18 user interviews, performing tests with 8 participants, and redesigning based on feedback.

#### **Future Work**

- Explore more detectable emotions.
- Assist film producers in enhancing future productions through user's emotional shifts during movie watching.
- Enhance emotional analysis dimensions to better aid user understanding of films.