



Amazon Movie Reviewer

By: David, Shafeeq, Freddie and Oliver

Motivation

The Simpsons Movie.



★☆☆☆☆ **One Star**

By Customer - January 21, 2015

The back of Homer Simpson's heads is
Charlie Brown's shirt.

Hunger Games (2012)



By [Ryan Galaska](#) on February 16, 2016

Verified Purchase

Hunger isn't a game.

0 of 1 people found this review helpful

★☆☆☆☆ **Yuck.**

By [Tony Wiggins](#) on June 1, 2001

There were no chariots and there was no fire.

★☆☆☆☆ **this could never
happen**

By Mike Watson - June 5, 2004

oh yeah a boat this big could really sink



About the Project...

Project Objective

- Give users a movie recommendation derived from Amazons movie ratings and reviews dataset

Project Scope

- The app must be able to run in a reasonably fast time and use little space
- A simple GUI allows users to use the functions of the app easily
- The use of a cloud server allows greater power for our app

The Data Set...

Dataset statistics

Number of reviews	7,911,684
Number of users	889,176
Number of products	253,059
Users with > 50 reviews	16,341
Median no. of words per review	101
Timespan	Aug 1997 - Oct 2012

```
product/productId: B00006HAXW
product/title: Rock Rhythm & Doo Wop: Greatest Early Rock
product/price: unknown
review/userId: A1RSDE90N6RSZF
review/profileName: Joseph M. Kotow
review/helpfulness: 9/9
review/score: 5.0
review/time: 1042502400
review/summary: Pittsburgh - Home of the OLDIES
review/text: I have all of the doo wop DVD's and this one is as good or better than the
1st ones. Remember once these performers are gone, we'll never get to see them again.
Rhino did an excellent job and if you like or love doo wop and Rock n Roll you'll LOVE
this DVD !!
```



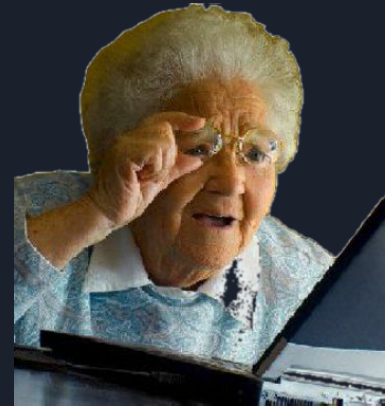
Requirements Specification...

Functional:

- Accept Product ID as input
- Output 2 reviews with the highest helpfulness rating
- Output other movies which these reviewers have rated highly

Non-Functional:

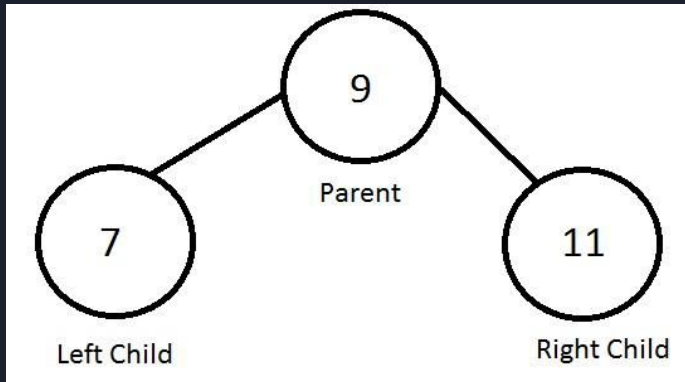
- Reliable
- Robust
- Performance
- Human-Computer interface issues
- Integrity
- Accuracy of Results



Design Specifications

Algorithmic Challenges:

- Insertion Sort
- Binary Search
- Binary Search Tree



Input:

- Product ID (the Amazon Standard Identification Number)

Output:

- If Movie is in dataset;
 - 2 Highest rated reviews for that movie
 - Other movies by users who made the 2 highest helpfulness rating



Methods of Verification and Validation...

- Blackbox testing
- Whitebox testing with the implementation of Junit test
- Static testing in the early product development
- Dynamic testing with various inputs
- GUI testing