

# High Level Design Document

for Movie Recommendation Website

**Title: MovieBash**

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**1 CONTENTS**

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1 Contents.....2

2 Introduction.....3

2.1 Scope of the Document.....3

2.2 Intended Audience.....3

2.3 System Overview.....3

3 System Design.....3

3.1 Application Design.....3

3.1.1 Process Flow.....3

3.1.2 Information Flow.....3

3.2 Component Design.....4

3.3 API Catalogue .....4

4 Data Design.....4

4.1 Data Model .... 4

4.2 Data Access Mechanism.....4

## 2 INTRODUCTION

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### 2.1 SCOPE OF THE DOCUMENT

This document contains the high-level functional design for movie recommendation system. It highlights the high-level use cases in recommendation and filtration process.

### 2.2 INTENDED AUDIENCE

- People of all age who likes to watch movie

### 2.3 SYSTEM OVERVIEW

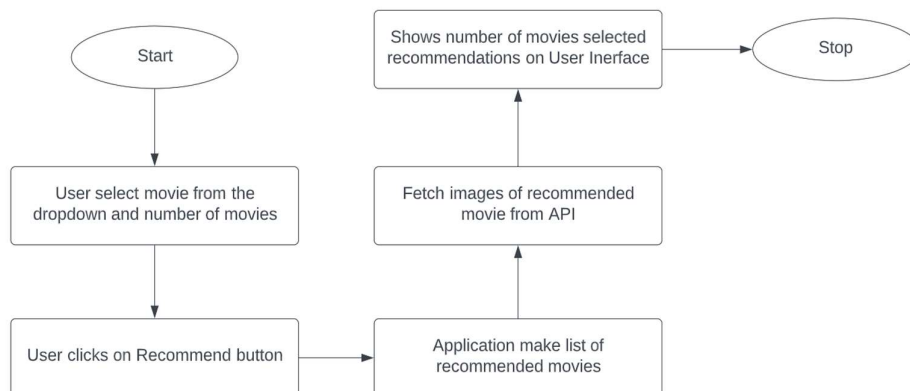
This system is designed for recommendation of movies to the customers on the basis of the movie which they select and also, they select how many movies they want to be recommended. It uses content-based filtering and takes all the parameters like cast, crew, overview, etc for judging and recommends the nearest movies.

## 3 SYSTEM DESIGN

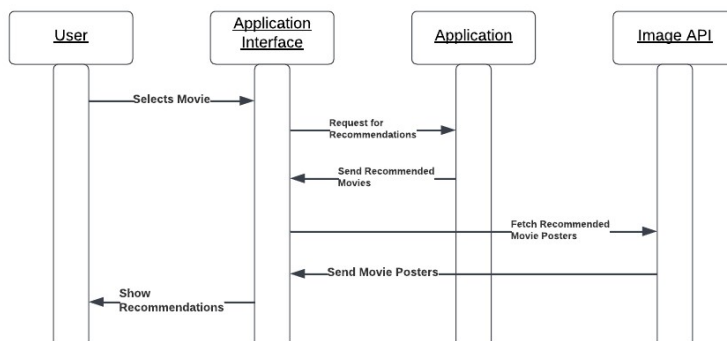
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### 3.1 APPLICATION DESIGN

#### 3.1.1 Process Flow



#### 3.1.2 Information Flow



### 3.2 COMPONENT DESIGN

1. User: It depicts the user/customer who will use the website.
2. Application Interface: It depicts the interface of website to which the user interacts.
3. Application: It depicts the backend and functionalities of the recommender system.
4. Image API: It depicts the external API used to get image of the movies by movie id.

### 3.3 API CATALOGUE

S.No.	API Name	Description	Input	Output	Access Level
1	The Movie DB Movies ( <a href="#">LINK</a> )	Give all details of the movie. Used for getting path to the image	Movie ID	Movie Details JSON	API Key
2	The Movie DB Images ( <a href="#">LINK</a> )	Get image of the movie, using movie path	Image Path	Movie Image	Public

## 4 DATA DESIGN

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### 4.1 DATA MODEL

The data of the movies is downloaded from Kaggle ([LINK](#) to dataset). After it is processed and converted to the usable dataset. Then the processed dataset is converted to byte stream and exported to pickle file using python module named [pickle](#).

### 4.2 DATA ACCESS MECHANISM

The pickle file processed previously is now read in the frontend file and on basis of that dataset the recommendation system shows the related movies.