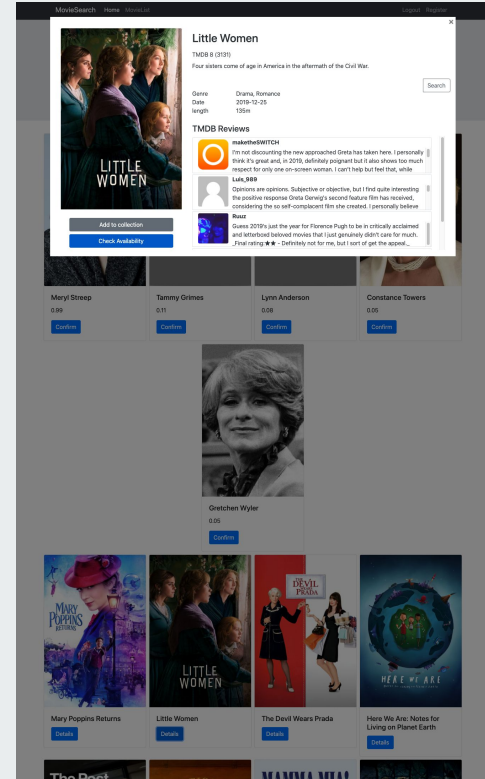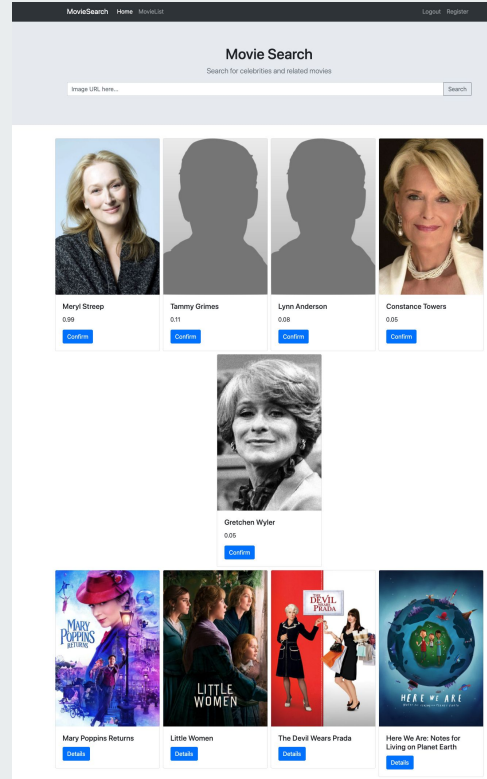# MovieSearch
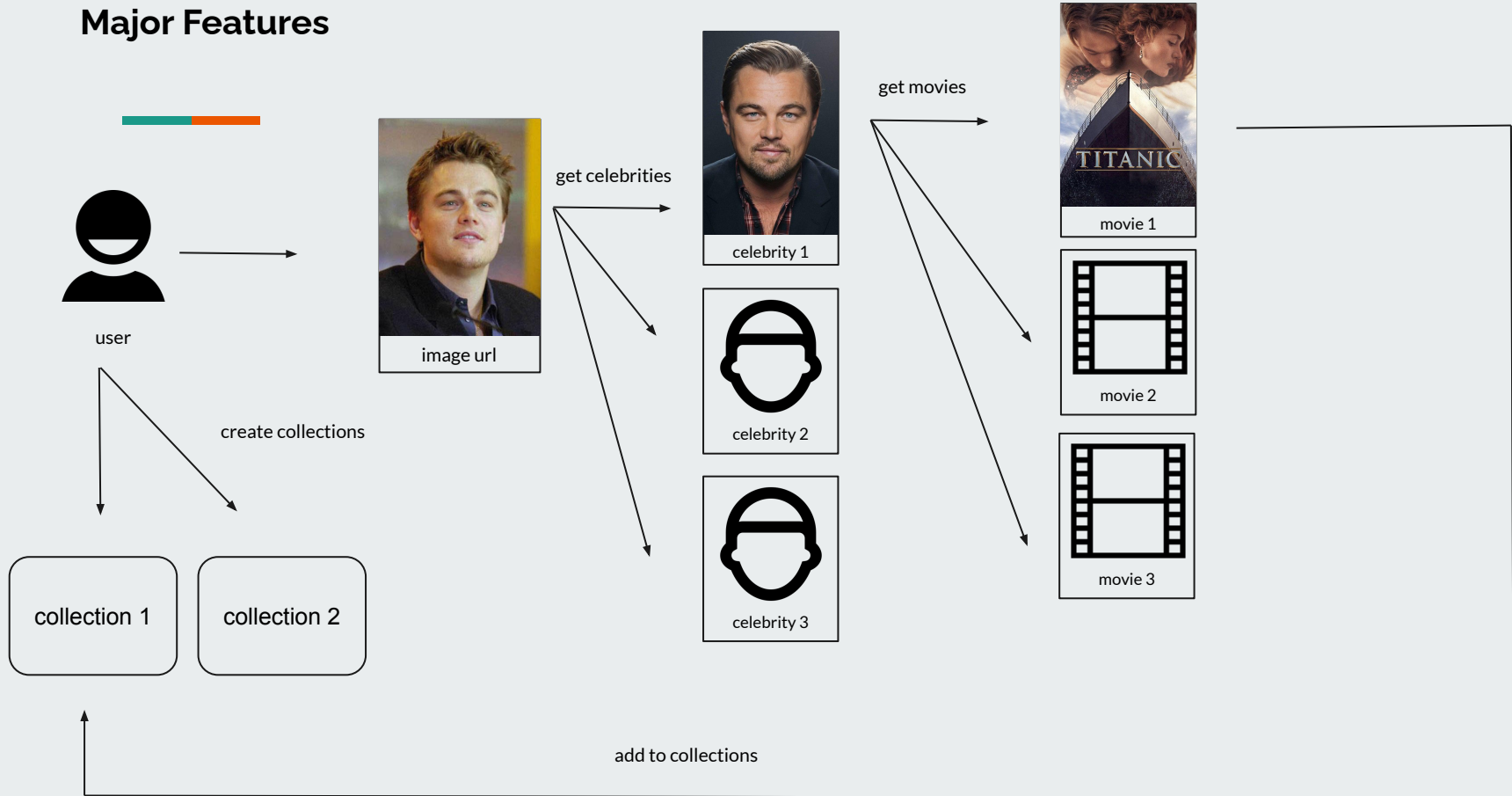
by Yibin Zhang, Sichen Wang

Purpose
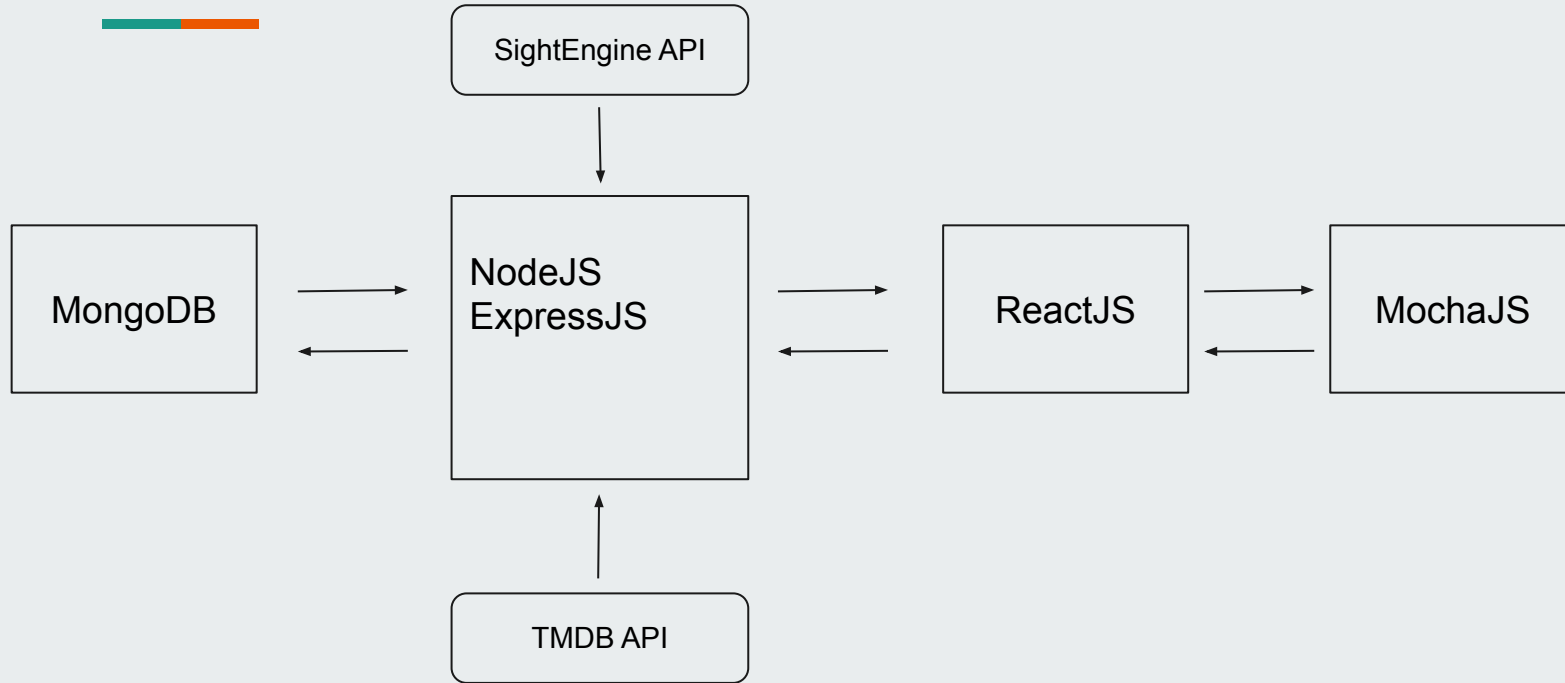
MovieSearch is a web application that allows users to search for movies based on celebrity images.

Major Features

user

image url

get celebrities

celebrity 1

celebrity 2

celebrity 3

get movies

movie 1

movie 2

movie 3

create collections

collection 1

collection 2

add to collections

Technologies


```
                    ┌─────────────────┐
                    │ SightEngine API │
                    └─────────────────┘
                             │
                             ▼
┌──────────┐      ┌─────────────────┐      ┌──────────┐      ┌──────────┐
│ MongoDB  │ ───► │ NodeJS          │ ───► │ ReactJS  │ ───► │ MochaJS  │
│          │ ◄─── │ ExpressJS       │ ◄─── │          │ ◄─── │          │
└──────────┘      └─────────────────┘      └──────────┘      └──────────┘
                             ▲
                             │
                    ┌─────────────────┐
                    │ TMDB API        │
                    └─────────────────┘

Data Storage        Back-End              Front-End         Test
```

Architecture

models

- user
- collection
- celebrity
- movie

controllers

/user/register POST

/user/login POST

/user/logout GET

/user/authenticated GET

/user/collection POST DELETE

/user/collections GET

/celebrity POST

/movie POST
/user/movie DELETE

views

Login

Register

SearchBar

NavBar

CelebrityResult
CelebrityCard

MovieResult
MovieCard
MoviePopup
MovieDetail
MovieAttribute
Review

Collections
CollectionRow
CollectionPopup
CollectionResult
CollectionButton

ProviderButton
Message

External Services

Database - MongoDB
None Relational Database(NoSQL)

Advantages:
- Flexible document schemas
- Code-native data access
- Change-friendly design
- Powerful querying and analytics
- Easy horizontal scale-out

Authentication - PassportJS

Local Strategy:
This module lets you authenticate using a username and password in your Node.js applications.

JWT Strategy:
This module lets you authenticate endpoints using a JSON web token.

APIs

SightEngine
Detect and recognize celebrities from user input image.

The Movie Database (TMDb)
Retrieve detailed information about celebrities and movies

Test

Mocha
Mocha is a JavaScript test framework for Node.js programs, featuring browser support, asynchronous testing, test coverage reports, and use of any assertion library.

Chai
Chai is BDD/TDD assertion library.Can be paired with any javascript testing framework.
It provides natural language assertions, expressive and readable style.

Deployment Methodology

Heroku
    Heroku is a platform as a service based on a managed container system, with integrated data services and a powerful ecosystem, for deploying and running modern apps.

Deploying to Production with Git
    Adding Heroku app as a remote to an existing Git repository, then use git push to send the code to Heroku. Heroku then automatically builds the application and creates a new release.

LIVE DEMO

THANK YOU