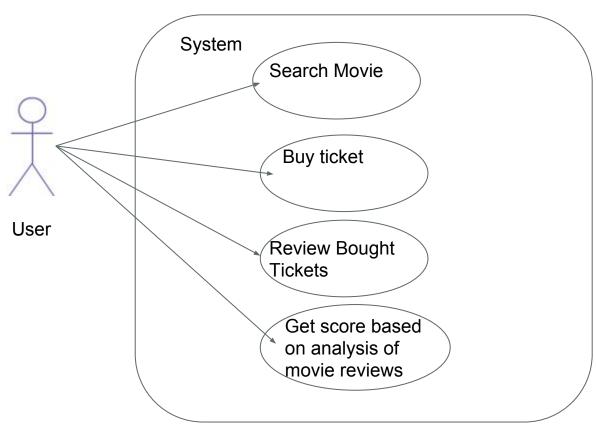
Movie Theatre

Jiawei Li Qiaomin Ling

Goals of Project

- 1. Building a Reactive Application based on Akka framework
- 2. Handling High Concurrent Ticket Sale
- 3. Collecting recent movie-related Data in real time
- 4. Movie Recommendation(Optional)

Use Case



Methodology

Data parser: Using Spark Streaming process data collection through Twitter/ Facebook API and make pre-process.

Data Analysis: Visualize dataset and try to understand the dataset. Using NLP makes sentiment analysis

Reactive Application: Handle requests with communication between multiple Actors using Akka. Introduce the application to a distributed framework, Spark on AWS(EC2).

Data Sources

Movie Dataset: IMDB

Movie Review: Twitter/ Facebook

Code Repository

https://github.com/li-jiawei/scala_moive_theatre

Programming in Scala

- 1. Spark Streaming API
- 2. Web framework Play API
- 3. Akka actor API
- 4. Database CRUD

Milestones

10.28 - 11.4 Final project proposal

11.4 - 11.11 Data collection

11.11- 11.20 Sentiment analysis of movie review

11.20 - 12.2 Ticket agent

12.2 - 12.9 Test and evaluate

Acceptance Criteria

Able to handle minimum of 2000 or ??? requests per minute.

The range of scores for evaluating movies are from 1 to 5.

Provide detailed analysis and suggestion for one movie based on real-time movie reviews. Accuracy above 60%.

Thank you