**CS673 Software Engineering**

**Team 3:** **Movie Masters**

**Meeting Minutes**

**Meeting 3**

**Meeting 2**

**Date and Time:**  Friday, 20 Sept 2024 10:00 AM EST

**Place**: Group WeChat Call

**Participants:** Xuansheng Xia, Ziliang Ren, Mingyuan Xu, Xiaojuan Li, Hengyi Song

**Minutes taker:**Hengyi Song

**Timekeeper:**Hengyi Song

**Purpose:** Iteration 0 & Presentation Prep Meeting

**Agenda**:

* Determine project framework and architecture

* Discuss main requirements
* Prepare for Presentation 1
* Prepare for iteration 0
* Allocate tasks for SPPP
* Discuss RiskManagement

**Discussion:**

* Determine project framework and architecture

* Use a technology stack with **Python** and **Django** for backend development, handling server-side logic and database management.
* The frontend will be built with **HTML, CSS**, and **JavaScript**, using **ECharts** for data visualizations. **MySQL** will store the IMDb movie data.

* Discuss main requirements

* Functional - Essential:
* Interactive Movie Data Visualization

* Circular chart showing movie rating distribution.
* Line chart comparing ratings to awards won.
* Bar chart displaying the top 20 movie production companies.
* Pie chart representing the distribution of movie release years by intervals.
* Funnel chart showing the number of movies produced by country.
* Detailed Box Office and Genre Insights
* Radar chart showing box office performance based on movie ratings.
* Line chart visualizing the distribution of movies across different genres.
* Movie Duration and Language Diversity Analysis
* Histogram showing the frequency distribution of movie runtimes.
* Bar chart visualizing the number of movies produced in various languages.
* Functional – Desirable
* Review sentiment analysis
* Customizable data filters
* Functional – Optional
* Real-time data refresh
* Other cool features might be added in the future
* Nonfunctional
* Role-based access control
* Secure database management
* API security
* Prepare for Presentation 1 ()

* Outline of presentation
* Allocate tasks for team members based on roles, skill sets and personal preferences

-Leader: Xuansheng (Project Intro, Framework, Management plan, Essential requirements, Desirable requirements…)

-Requirement leader: Xiaojuan (Related work intro, demo if possible)

* Prepare for iteration 0

* Submit progress report by due date
* Complete SPPP accordingly based on individual tasks

* Allocate tasks - SPPP
* Discuss RiskManagement

**Key Decisions:**

* Determine project framework and architecture

Python with Django for the backend, HTML, CSS, and JavaScript with ECharts for the frontend, and MySQL to store IMDb movie data.

* Determine main requirements
* Functional - Essential:
* Interactive Movie Data Visualization
* Detailed Box Office and Genre Insights
* Movie Duration and Language Diversity Analysis
* Functional – Desirable
* Review sentiment analysis
* Customizable data filters
* Functional – Optional
* Real-time data refresh
* Other cool features might be added in the future

(Requirement details will be covered in SPPP doc.)

* Presentation 1
* Outline of presentation
* Allocate tasks:

-Leader: Xuansheng (Project Intro, Framework, Management plan, Essential requirements, Desirable requirements…)

-Requirement leader: Xiaojuan (Related work intro, optional requirements, nonfunctional requirements…)

* Iteration 0 tasks

Complete individual tasks timely and keep close collaboration to ensure smooth progress.

* Allocate tasks - SPPP
* Overview & Requirements - Xuansheng Xia
* Related Work – Xiaojuan Li
* Management Plan - Xuansheng Xia & Hengyi Song
* Configuration Management Plan – Mingyuan Xu
* Quality Assurance Plan – Ziliang Ren
* RiskManagement

draft in SPPP - Hengyi Song

**Action Items:**

* Complete tasks in iteration 0 and keep learning new tools – all team members
* Submit progress report to Leader by noon Wednesday – all team members
* Complete presentation doc – involved team members

**Meeting 1**

**Date and Time:**  Friday, 13 Sept 2024 10:00 AM EST

**Place**: Group WeChat Call

**Participants:** Xuansheng Xia, Ziliang Ren, Mingyuan Xu, Xiaojuan Li, Hengyi Song

**Minutes taker:**Xiaojuan Li

**Timekeeper:**Xiaojuan Li

**Purpose:** Project Kickoff Meeting

**Agenda:**

* Determine group name
* Determine project name
* Set progress report due
* Finalize communication plan
* Find and discuss related works
* Set up Git/GitHub
* Brainstorm requirements
* Discuss risks
* Determine an approach/process to use
* Assign roles

**Discussion:**

* Determine group name
  + Movie Masters
  + Data Wizards
  + Insight Elites

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* Determine project name
  + IMDB Movie Review and Data Visualization Platform – too long
  + IMDB Data Platform – IDB
  + Movie Data Visualization Platform – MDVP

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* Set Progress report due date
  + Members update the progress report weekly
  + Due date: each Wednesday
  + Need to decide start/end of week
* Week starts Monday, ends Sunday
* Finalize communication plan

* + WeChat Group – everyday communications, weekly meetings
  + Google Drive - upload and track all documents (including agenda, minutes, etc)
  + Git/GitHub – version controls
* Find and discuss related works
  + <https://www.bilibili.com/video/BV1A94y127qu/?spm_id_from=333.337.search-card.all.click&vd_source=369b00f99c15f6bb35635657e310a0c0>
    - Chinese movie visualization project
  + <https://www.salesforce.com/news/stories/imdb-tableau-movie-visualizations/>

* + - IMDB collaboration with Tableau

* + <https://www.novypro.com/project/imdb-dashboard>
    - IMDB Dashboard focused on financial analytics by PowerBI
  + <https://community.fabric.microsoft.com/t5/Data-Stories-Gallery/IMDB-Dashboard/m-p/3109237>
    - IMDB Dashboard focused on reviews by PowerBI

* + Our project is a **web-based visualization platform**, offering more diversified features and capabilities than a standard dashboard, which serves as a key differentiator.
* Git/GitHub

Compete lab1 by setting up Git/GitHub, manage version control and collaboration throughout the development process.

* Brainstorm requirements
  + Functional
    - Pie chart of the number of movies in the year of release
    - Scatter Plot of movie production companies and ratings
    - Radar chart of movie worldwide box office and ratings
    - Funnel plot of movie production countries/regions

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* + Non-functional
    - Ensure that the platform is secure by restricting unauthorized access.
    - Secure database access and management
    - Other security considerations
  + Gather valuable information from IMDb by extracting data through web scraping techniques
* Discuss risks

* + New tools – Encourage self-learning when not understanding/knowing how to use tools
  + Keep it simple
  + Originality - what differentiates us from others?
  + Advanced/optional requirements - may be too time consuming
  + Limited time for project as a whole
* Project criteria

* + Usefulness - Our project will provide in-depth analysis of movie data, empowering entertainment fans and professionals to uncover and share insights from the IMDb database through visually compelling and intuitive presentations.
  + Complexity – It will be sufficiently complex.

* + Originality - The project is uniquely developed from the original ideas of our team leader, Xuansheng Xia, with input and collaboration from the entire team.
* Determine an approach/process to use
  + Agile concepts/aspects - prototype and test driven with feedback/iteration
  + JUnit testing - test driven development
* Assign roles
  + Xuansheng Xia – Team Leader
  + Xiaojuan Li – Requirement Leader
  + Hengyi Song – Design & Implementation Leader
  + Mingyuan Xu – Configuration Leader
  + Ziliang Ren – QA Leader

**Key Decisions**

* Team name is Movie Masters
* Project name is MDVP – Movie Data Visualization Platform
* Time tracking
  + Week starts on Friday (Updated)
  + Week ends on Thursday(Updated)
  + Get progress report to Leader by noon on Thursday (Updated)
* Communication Plan

* + WeChat Group – everyday communications, weekly meetings
  + Google Drive - upload and track all documents (including progress reports, minutes, etc)
  + Use Git/GitHub for document and code repository, version control
* Roles assigned:

* + Xuansheng Xia – Team Leader
  + Xiaojuan Li – Requirement Leader
  + Hengyi Song – Design & Implementation Leader - Xiuansheng Xia (Updated)
  + Mingyuan Xu – Configuration Leader
  + Ziliang Ren – QA Leader
  + Security Leader (not designated yet, decision needed) - Hengyi Song(Updated)

**Action** **Items:**

* Complete lab1 before due and self-learn new tools – all team members
* Submit progress report to Leader by noon Wednesday – all team members