**Software Docomentation**

**Describe the database scheme structure**

The table in our sceme are:

Movies (id , overview, release\_date, tagline, title, vote\_avg, vote\_count)

Movie\_keywords (movie\_id (FK to movies.id), keyword\_id (FK to keywords.id))

Keywords (id, name)

Genres\_movies (genres\_id, (FK to genres.id) movies\_id (FK to movies.id))

genres (id, name)

Actor\_movies (actor\_id (FK to cast.id), movie\_id (FK to movies.id))

Cast (Id (FK to person.id))

Crew (crew\_Id (FK to person.id))

MovieCrew (movie\_id, crew\_id, job)

Person (id, name, gender)

**Provide reasoning for choosing the chosen database design, considering efficiency and drawbacks of alternative designs**

**Explain database optimizations, including index usage**

**Detail the 5 main queries, their purpose, optimization strategies, and how the database design supports them**

**Outline code structure, API usage, and the general flow of the application**