

DigiClips Media Search Engine

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Project Planning



Project Overview

DigiClips Media Search Engine: The goal is to build a scalable platform for media monitoring, focused on real-time media tracking and report generation.

- Planning Focus:
 - Establishing clear project goals and scope.
 - Ensuring smooth execution by defining key milestones, tasks, and management style.
 - Identifying risks early and implementing mitigation strategies to prevent delays and failures.
- Scope of Planning:
 - Development of a reliable backend for media processing.
 - Frontend interface creation, integrating with real-time data feeds.
 - Continuous user feedback loops for iterative improvements.

Project Management Style: Agile

1. **Iterative Development:**
 - Breaks down the project into sprints, allowing us to adapt quickly to changes.
2. **Flexibility:**
 - Agile allows for adjusting features based on client feedback throughout the project.
3. **Frequent Testing:**
 - Continuous integration and regular testing ensure system quality.
4. **Collaboration:**
 - Regular team check-ins and client feedback loops for better progress tracking.
5. **Risk Management:**
 - Agile's incremental approach helps address risks like data security and system integration.

High-Level Task Decomposition

1. **Project Setup & Planning:**
 - a. Defining goals, setting up the environment, and project management strategy.
2. **Backend Development:**
 - a. Building media data processing functions and creating APIs.
3. **Frontend Development:**
 - a. Developing the search interface and keyword alerts for users.
4. **Integration & Testing:**
 - a. Connecting backend and frontend, conducting unit tests.

Key Milestones

Project Planning & Architecture Review: Define project scope and Angular upgrade strategy.

Angular Upgrade Assessment: Evaluate compatibility and necessary refactoring.

Backend Development: Build search algorithms and APIs for media indexing.

Angular Front-End Migration: Refactor and upgrade the user interface to the latest Angular version.

Key Metrics:

Completion Rate: Tasks completed versus planned milestones.

Search Performance: Speed, accuracy, and relevance of media search.

Frontend Load Time: Page load times post-Angular upgrade.

Error Rate: Bugs or issues found during testing.

Risks

- Data Inaccuracy and Latency
- System Downtime or Failure
- Data Security and Privacy Breaches
- Integration Challenges with Existing Systems



Risks Mitigation strategies

- Schedule frequent updates with real-time data feeds from trusted sources.
- Implement continuous monitoring with alert systems for proactive maintenance.
- Hide sensitive information from front-end
- Upgrade the old system to Angular 17-18



Conclusion

- **Agile Approach:** The use of Agile allows for flexibility and continuous feedback, ensuring the project adapts to changes and remains on track.
- **Clear Milestones:** Key milestones like API development and Angular migration provide structure and focus for the team, while metrics like search performance and load times ensure quality.
- **Risk Mitigation:** Early identification of risks such as data inaccuracies and system downtime allows us to implement proactive solutions, ensuring smoother project execution.
- **Next Steps:** Focus on completing API development, continue frontend migration, and start integration testing to ensure the platform is robust and functional.
- **Final Thought:** Our combination of Agile practices, defined milestones, and proactive risk management sets the foundation for a successful and scalable media search engine.