**Documentaion of video upload application using django**

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# Introduction

The documentation has been created to communicate the design approach to Calcul.Ai team. It includes the objectives, scope, schedule, risks, approach and use cases. This document will clearly identify what the design deliverables will be and what is deemed in and out of scope.

## Objectives

To develop a web app which uploads a video format file. The design should be done using Python along with Django. The test team is only one Development Engineer.

Phase 1 of the project will deliver the two-page web app. First page consists of video upload tab and second page consist of Metadata description.

## Team Members

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| Pranjal Kasar | Software Developer/QA |
|  |  |
|  |  |

# Scope

At the end of Phase 1, a software developer must be able to:

1. Upload a video file
2. Store the path of video file
3. Display the latest uploaded video file

Django and python are the infrastructure requirement. Version details are shown in next tab.

Python: 3.7.3

Django: 2.2.2

# Assumptions / Risks

## Assumptions

This section lists assumptions that are made specific to this task.

1. .mp4 video file format is considered.
2. Variable deadline. (depends on task complexity)
3. Django and python are used extensively.

## Risks

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Risk | Impact | Trigger | Mitigation Plan |
| 1 | Lack of Django Understanding | High | Delays in delivery date | Learning from scratch |
| 2 | Loss or breakage of a laptop or resources | High | Loss of executed task | Data exporting |
| 3 | Connection with Django database and python | Medium | Delays in delivery date | Some functionality needs to be change |

# Design Approach

At the beginning, Django needs to understand from scratch. Follow the Django tutorials available on various sources. Also, the design approach should be as per client requirement.

## Design Techniques

* Created HTML templates for the design of both webpages viz. home.html and about.html
* Applied main.css file to the html base template to make attractive web pages.
* Using Python as a language and Django as a web framework to create final web application
* All paths to the URL patterns are given in urls.py
* The form models are given in model.py
* All coding logic is in the views.py
* Media URL is set in settings.py

**AWS URL:**

<http://django-env.spmtqfppa3.us-west-2.elasticbeanstalk.com>

# 

# 5 Milestones / Deliverables

## Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Design Plan | 05/26 | 05/31 |  |  |
| Exploratory design | 05/27 | 05/28 |  |  |
| Design approach | 05/28 | 06/04 |  |  |
| Django Learnings | 05/29 | 06/08 |  |  |
| AWS Learnings | 06/03 | 06/08 |  |  |
| Implementation | 05/30 | 06/08 |  |  |
| Functional testing | 05/06 | 06/08 |  |  |
|  |  |  |  |  |

## Deliverables

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **For** | **Date / Milestone** |
| Design Plan | Project Manager;  Development Manager |  |
| Design technique | Development Manager |  |
| design Results | Project Manager, Development Manager |  |
| Design Report | Development Manager |  |
| Issues Found | Development Manager |  |

# Use Cases

* Land on the home page which shows the home and metadata tab
* Home tab should contain upload button, area for the file name and are for video selection
* Metadata tab should contain information of video.

# Limitation

* Metadata is not completed due to complexity of the topic.

# Future scope

* Metadata formation
* YouTube video insertion
* Metadata using python instead of Django

# Testing

* Testing done manually
* Used functional testing approach.
* Regression testing is also completed.

# Test Environment

Testing is performed on Web and desktop.