User requirements

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Outlines

Context and environment

- XLIM-SIC laboratory of Poitiers University.
- Researching for new features matching and indexing solutions.
- Life CLEF contest 2015.

Aim of project

- Develop a software program for image indexing and recognition.
- Using this software to obtain the best results in the CLEF challenge.
- This project is relevant to our training.
- There are many educational topics related to this project to.

Scope of work

- Design a software program which for indexing the whole database.
- Adapt the last up to date designed texture and color attributes.
- This project is a way for the researchers to see how they will behave in a real situation.

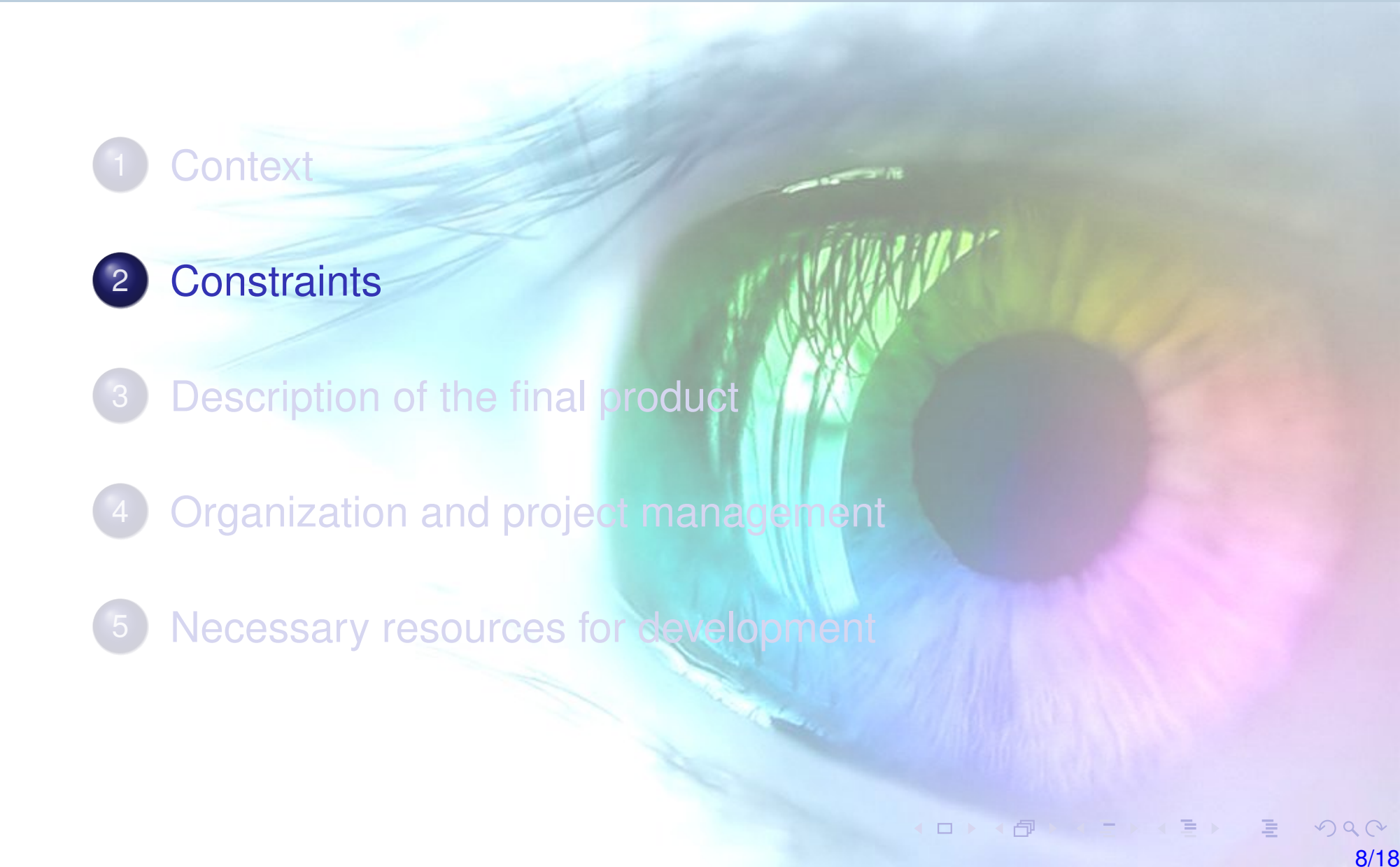
Stakeholders

- Customer : Thierry Urruty.
- People involved in the project : Thomas Le Bris, Gaëtan Adier, Ibrahima Gueye, Etienne Caillaud, David Helbert, Noël Richard.
- End users : Various image database structures (Flick, Google, CIBDI Angouleme, Eïnden...).

State of the art

- CLEF contest $\rightarrow$ competition between international laboratories.
- SIFT or/and SURF are the most use.
- Choose FINKI as reference (multiscale triangular shape or opponent SIFT).

Outlines



Deadlines

- Final product to the 9th June 2015.
- Presentation on the 15th June 2015.
- SCRUM meetings every morning.
- Weekly meeting with tutors.

Outlines

Software

- Software program able to calculate texture type descriptor suitable to nature images.
- Locally
  - Create one directory for each descriptor.
  - One text file will be created too and will contain all the information about the image.
  - One single text file and will contain all the information.

Analysis

- Compare our results wiht the others laboratories.
- Use the CLEF challenge metrics.
- An abstract of these comparisons will be provided with the software program and the final technical report.

Outlines

Schedule (1/2)

- Writing the state of the art.
- Preparing the database.
- Programming.
- Writing the report.
- Preparation of the oral presentation.

Schedule (2/2)

ID	Task Name	Start	Finish	Duration
1	**Writing the state of the art**	27/04/2015	01/05/2015	1w
2	**Preparing the database**	**01/05/2015**	**14/05/2015**	**2w**
3	Constitution of database structure	01/05/2015	04/05/2015	2d
4	Calculation of SIFT discriptors	04/05/2015	14/05/2015	1w 4d
5	Calculation of SURF discriptors	04/05/2015	14/05/2015	1w 4d
6	**Programming**	**08/05/2015**	**08/06/2015**	**4w 2d**
7	Programming CLP descriptor calculation	08/05/2015	29/05/2015	3w 1d
8	Programming the distance calculation function	18/05/2015	29/05/2015	2w
9	Writing of the technical documentation	08/05/2015	03/06/2015	3w 4d
10	Learning the use of HULK calculator	25/05/2015	29/05/2015	1w
11	Calculation of CLP descriptors	29/05/2015	03/06/2015	4d
12	Compare result using CLEF metrics	03/06/2015	08/06/2015	4d
13	**Writing of the report**	**27/04/2015**	**08/06/2015**	**6w 1d**
14	Writing of the technical report	27/04/2015	01/06/2015	5w 1d
15	Writing of the final educational report	02/06/2015	08/06/2015	1w
16	**Preparation of the oral presentation**	09/06/2015	15/06/2015	1w

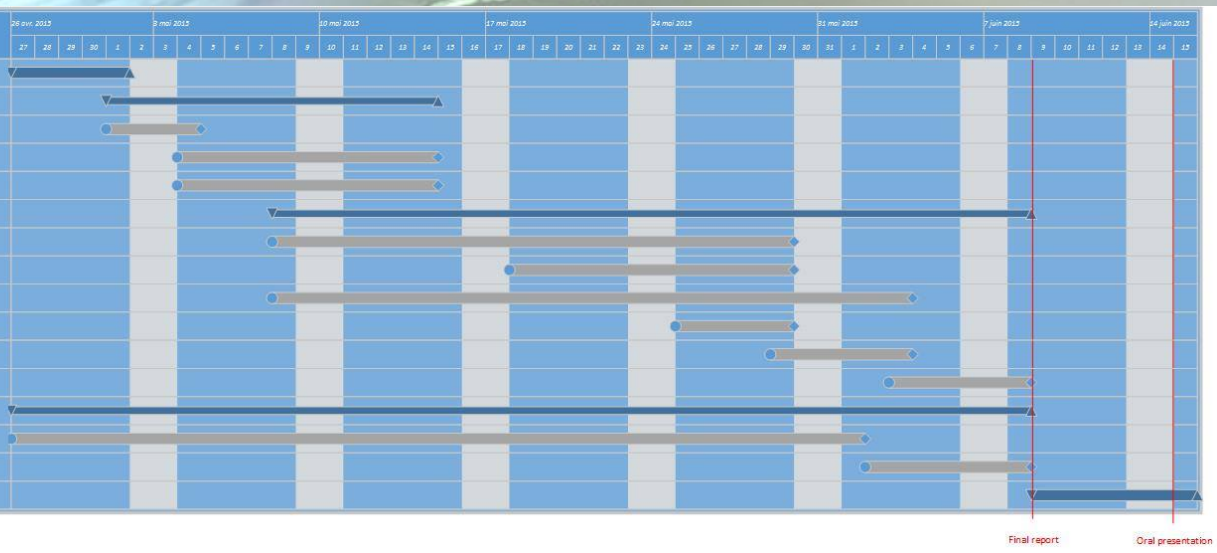


FIGURE: Gantt chart

Place

- Project classrooms (ON03/01/17) in the SP2MI building.

Outlines

Ressources

- Connection to computing server of university.
- Computers with Python edition tools.
- Electrical outlets and internet access.