**Functional requirements.**

1. **Student** are able to upload their **proposal** to the system and the system finds the most suitable **supervisor**.
2. In case a student doesn't have a ready proposal, he/she can submit keywords of his/her project idea.
3. **Lecturers** can signup or register.
4. Lecturers can login into the system (authentication).
5. Lecturers can update their profile information.
6. Lecturers can upload their work. These include project proposals, projects, academic papers and notes on units they are teaching.
7. Lecturers can delete files they upload.
8. Lecturers can change their password
9. System admin can remove lecturers that no longer works for the university.
10. System admin can remove lecturers.

**Non functional requirement**

1. The system accepts proposal and lecturer's work in word,PDF or text file (txt).
2. The system is able to extract keywords from the student's proposal, dropping words that do not provide any meaningful information.
3. The system transforms the keywords to their lemma before it is stored in the database.
4. The system captures the document id and the lecturer's id on each document.
5. The system creates and stores the keywords in a hash table. The format should be {"keyword": [document\_id, lecturer\_id]}
6. Keywords are stored locally.
7. System should be able to provide available keywords.
8. System should provide a list of lecturers in the order of the most appropriate. (Ranking)
9. The system stores the lecturer's documents in a database.