Task : Design the backend product architecture of a resume making software. Input will be a resume. Then the resume will be analysed through various steps, Step1 , Step 2 and so on Then the score of the resume will be shown. Give the option to make new resume after showing score. The new resume will be made, via different steps, Step 1: get details in a form. Step 2 : spell check Step 3: Change voice and so on… You can use diagrams.net for designing the architecture

Section-based Segmentation Module:

Education and Experience and other employment information such as Company name, Applicant's Role in the company, the Date of designation, and Date of resignation are carried out. Then the NLP steps are: document splitting, n-gram tokenization, stop word removal, part-of-Speech-Tagging (POST) and Named Entity Recognition (NER). This step will take care of spell check and change voice.

Filtrate Module:

Once unstructured resumes are converted into the semi-structured document, the list of candidate concepts are identified, extracted, and filtered using the filtration module.

Skillset:

Once filtered skills will be taken out. It will be kept on the skillset.

Skill Knowledge Base:

It will have all the skills present in the database and those provided in the resume. It will be the classification module for category-based matching. For ex- Software Engg.

Category-based matching and ranking:

Since we are making a resume so it will take the category and based on the above category will give ranking to the user.

Fill out the form and Filtrate:

If the user wants to make his resume have to fill out the structured form and will start the process once again.