

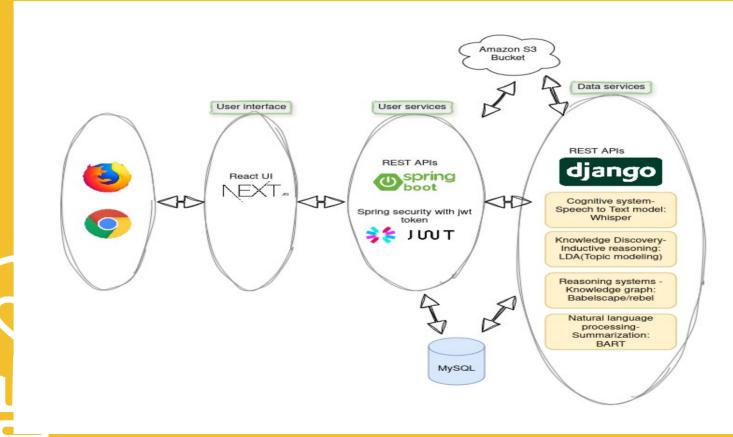
Procrastinate: System design

A audio and text processing tool for lazy students

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System architecture



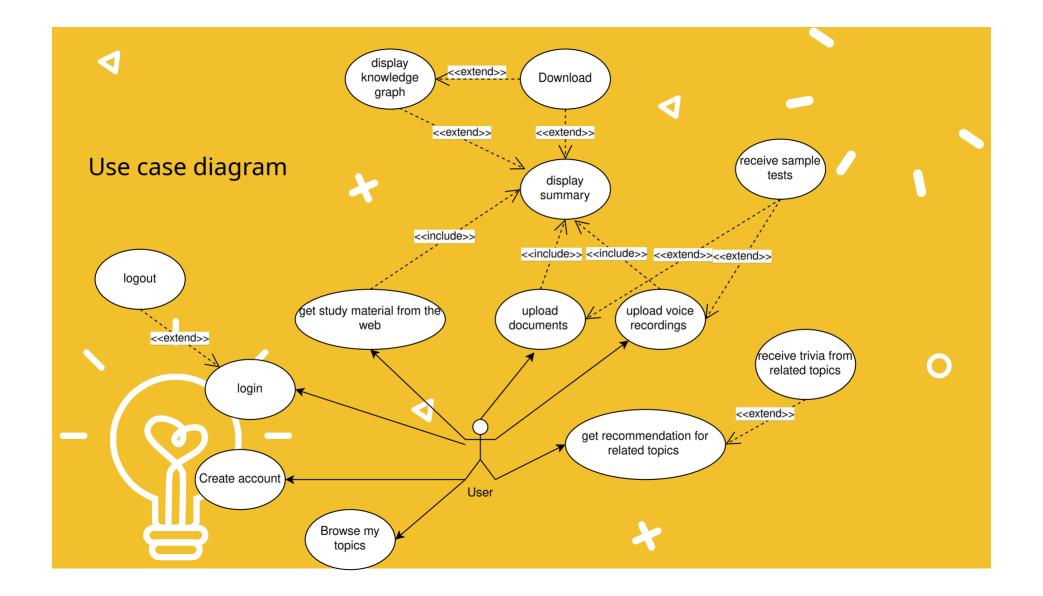


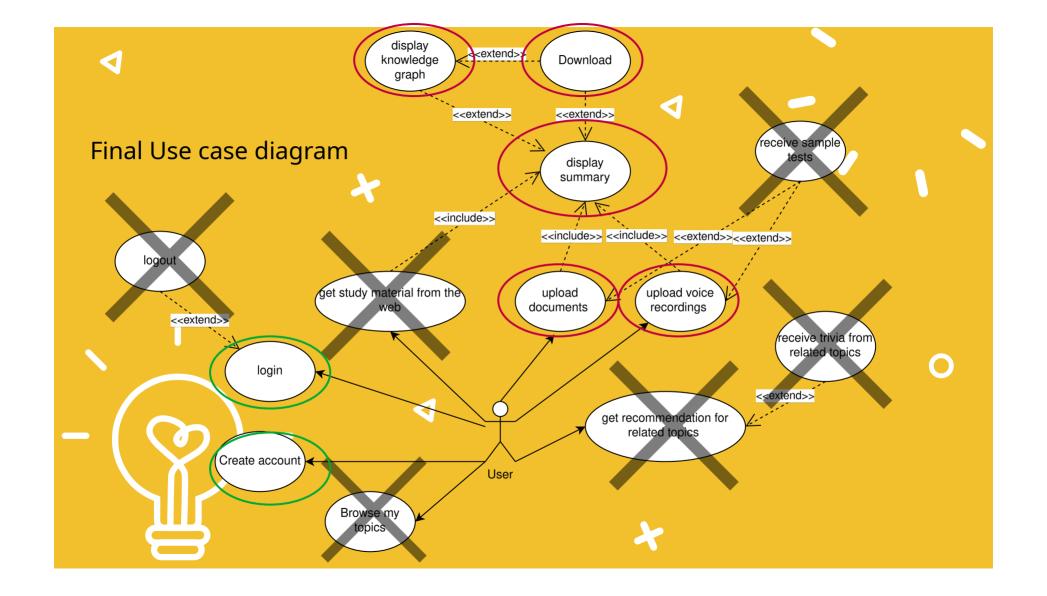
Study Smarter

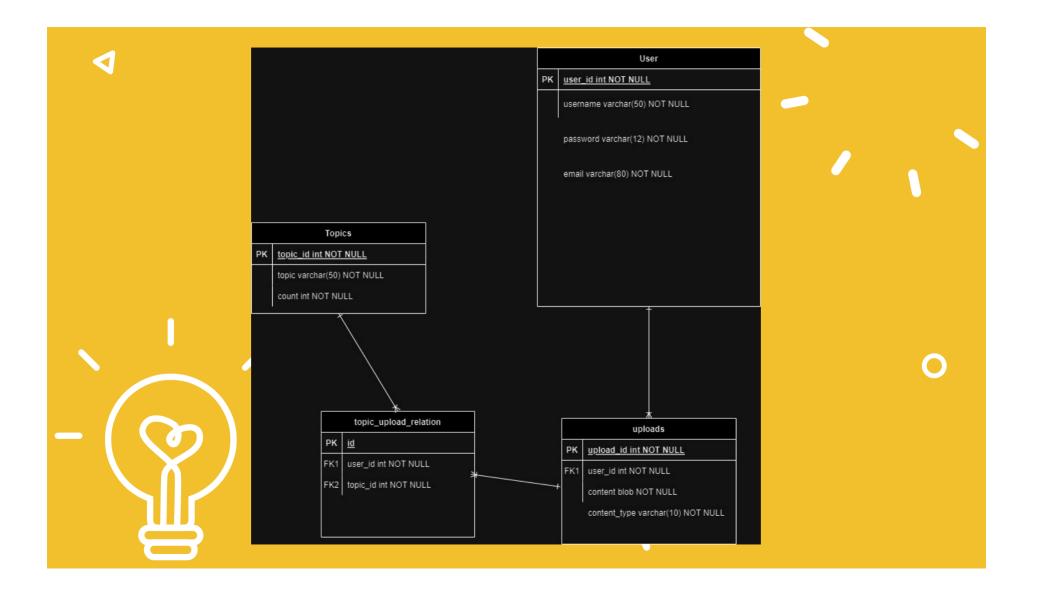
Say goodbye to procrastination-induced stress and hello to academic success with Procrastinate. Start your journey today and unlock your full academic potential!

STOP PROCRASTINATING

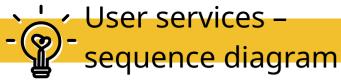




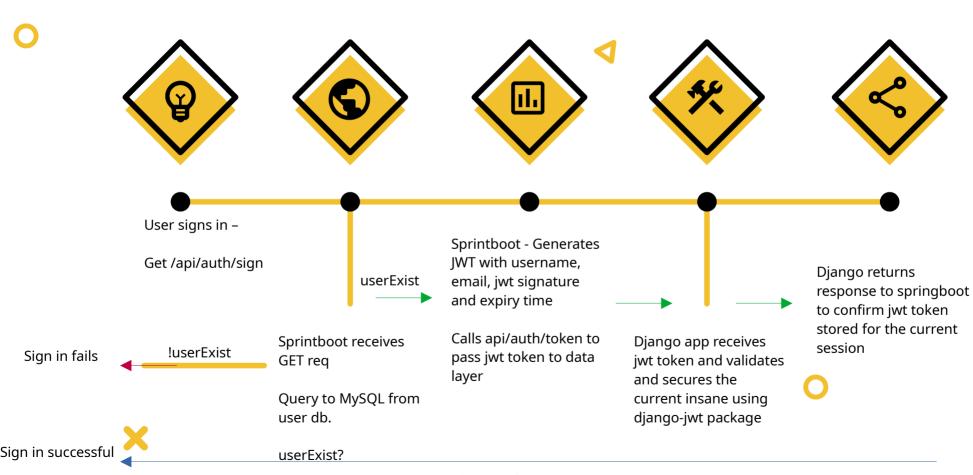


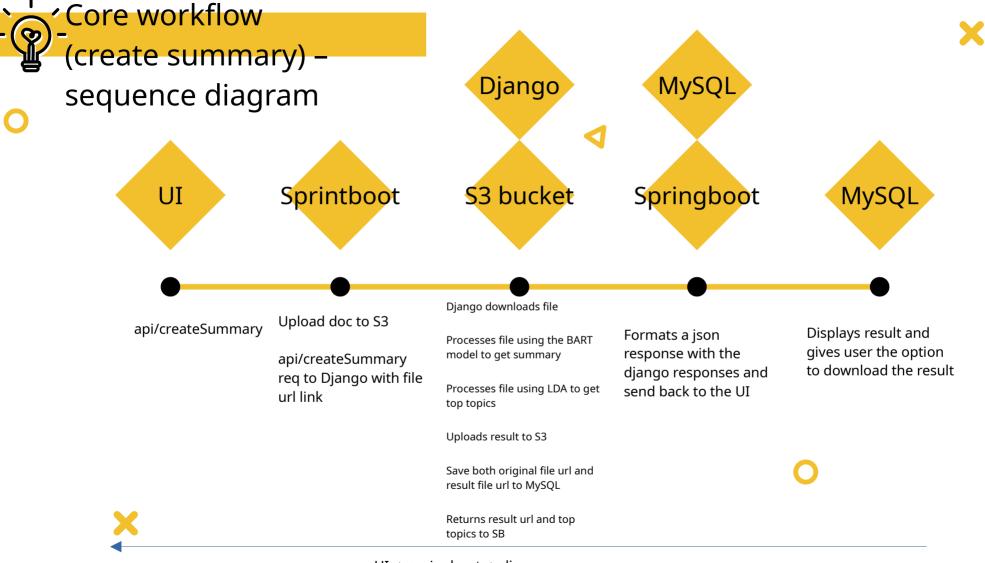


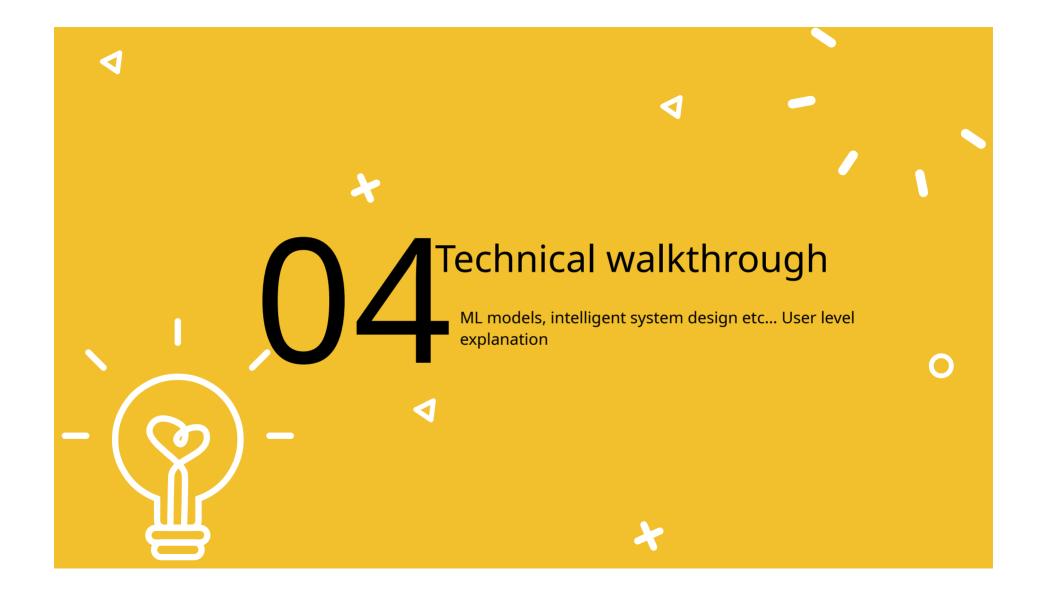














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Use case: Upload voice recordings -> display transcript



BART

Summarization

Use case – Get summary





Babelscape/rebel

Knowledge-based (knowledge graph)

Use case – Get mindmap









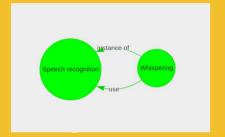
Gensim - LDA

Topic modelling

Use case – Get top topics



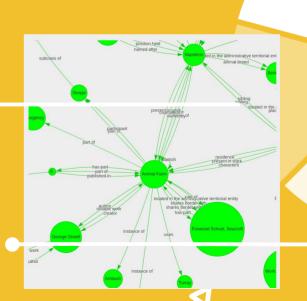
Downloads text file and tokenize the whole text



Generate relations using the pretrained model from babelscape/rebel. Establish the base to form nodes with clearly defined relationship properties

Pass the generated relations into our knowledge based class which will, merge, add, and checks for existing relations. Here we also use the wikipedia library to retrieve additional information about entities to enrich our knowledge base

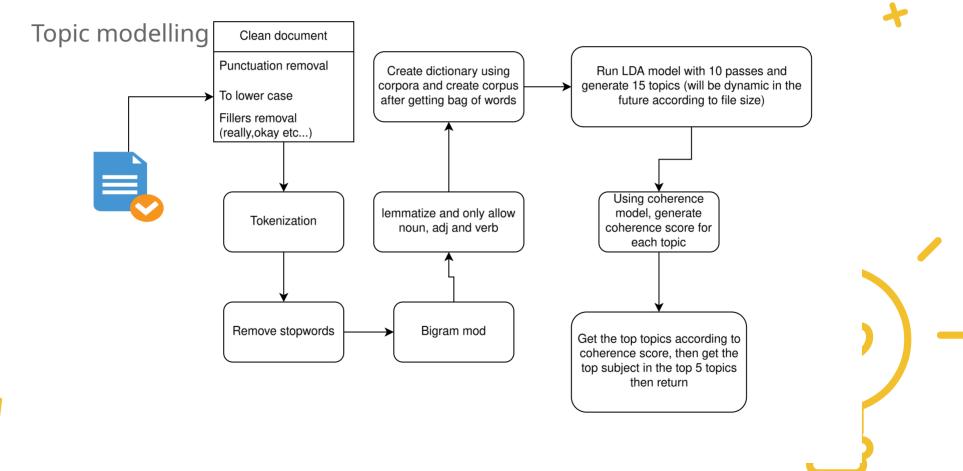
Generate a a network(knowledge graph) using the network library using our newly generated knowledge base and save a html version of to be interacted with by the user (zoom in, zoom out and move items)

















Lessons learned and future development





