

Software engineering

ID	Requirement description	Priority	State	Contributors
1	Develop an API to allow "plugging in" different search algorithms The search algorithm receives the search query as a string and returns a ranked list of material ids that uniquely identify each document stored in the X5GON database. Retrieval from the database, filtering and visualization is handled by separate parts of the system.	Must	✓	All
2	Have all the libraries be open source Add an appropriate software licence, write a README document for future developers working with the software that explains how to use the API and how the system is structured.	Must	✓	All
3	Create a Google-like web user interface (UI) to search for content that interacts with the API to display relevant search results The web UI shows a simple search bar where the user enters their query. On pressing enter or the search button next to the bar, the query is processed and the UI shows a list of results ordered by relevance. Each result shows the most relevant information about that material.	Must	✓	All
4	Common search filters At least the following: date added, type of media, license type, language. Could further be expanded on by adding a filter for certain keywords or Wikipedia topics that is dynamically adjusted for each query.	Should	✓	Thatchawin
5	Show more interesting information about each material in the search results This could include: a concise summary of the contents, thumbnail, author/source information	Should	✓	Tim
6	User account functionalities Users can register for an X5GON Learn account or log in to the search platform with their existing account. A user's search history is saved and accessible to see and delete. Previously opened materials are displayed in a different colour on the search results list.	Should	✓	Thatchawin
7	Make the interface responsive Optimise the interface for different devices, in particular smartphones.	Should	X	
8	Display user interests/ statistics in the interface with charts	Could	X	
10	Allow users to create and share watchlists	Won't	X	
11	Advanced search interface	Won't	X	
12	Show users recommendations based on their history	Won't	X	