

Functional Requirements Document: YouTube.com

1. Homepage Functionality

FR1: When a user visits youtube.com, the homepage should load with personalized video recommendations.

FR2: The homepage should contain sections like Trending, Subscriptions, Shorts, and Watch Again.

FR3: Videos on the homepage should be clickable and redirect to the video playback page.

2. Search Functionality

FR4: Users should be able to enter a search query in the search bar.

FR5: Relevant video results should be displayed based on the query.

FR6: The search results page should support filters like Upload Date, Type, Duration, Features, and Sort By.

3. Video Playback

FR7: Clicking a video should open the video playback page and start playing the video.

FR8: Users should be able to play, pause, skip, and change video resolution.

FR9: A suggested videos section should be shown to the right of the video player.

4. Authentication (Login/Signup)

FR10: Users should be able to log in using a valid email and password.

FR11: New users should be able to sign up with a valid Google account.

FR12: After login, the homepage should reflect personalized subscriptions and history.

5. Like, Comment, and Share

FR13: Logged-in users should be able to like or dislike a video.

FR14: Users should be able to comment on a video and reply to other comments.

FR15: Each video should have sharing options like copy link, embed, and social share buttons.

6. Subscriptions & Notifications

FR16: Logged-in users should be able to subscribe/unsubscribe to channels.

FR17: Notification bell should show recent uploads from subscribed channels.

FR18: Users should be able to manage their notification settings from their profile.

7. Upload Video

FR19: Logged-in users should be able to upload videos from the 'Create' menu.

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FR20: Users must fill in title, description, and visibility settings before uploading.

FR21: Uploaded videos should appear in the user's channel and video manager.

8. User Profile Settings

FR22: Users should be able to view and edit their profile information.

FR23: The settings page should allow password changes, theme selection, and privacy controls.

FR24: Users can access their watch history, liked videos, and playlists from the sidebar.