**Mind Map**

### **Mind Map: YouTube Web Application**

1. **Homepage**
   * Video Feed
     + Recommended Videos
     + Trending Videos
   * Layout
     + User-friendly design
     + Intuitive navigation
     + Consistency across browsers
   * Notifications
     + Display of recent notifications
   * Accessibility Features
     + Captions
     + Keyboard shortcuts
     + Screen reader support
2. **Application Listing**
   * **Subscriptions**
     + Display Subscribed Channels
     + Manage Subscriptions
     + Navigation to Subscribed Channels
   * **"Watch Later"**
     + Add Video to Watch Later List
     + Retrieve Video from Watch Later
   * **Search Functionality**
     + Search Bar
     + Relevant Search Results
3. **Application Details**
   * **Video Playback**
     + Video Plays Seamlessly
     + Pause/Play Functionality
     + Video Controls (Volume, Fullscreen, etc.)
     + Error-Free Playback
   * **Secure Login Process**
     + Login with Valid Credentials
     + Error Messages for Invalid Login
4. **Application Functionality**
   * Video Feed
     + Display Home Feed
     + Trending Section Visibility
   * **Trending Videos**
     + Verify Display of Trending Content
   * **Recommendations**
     + Based on User History
     + Relevance of Recommendations
   * **Notifications**
     + New Videos from Subscribed Channels
5. **Checkout Process** (Not directly applicable, so might be omitted from YouTube's mind map unless referring to subscription model)
   * Optional: Subscription/Pay-per-view features (if any)
6. **Search Functionality**
   * Verify Search Results
     + Relevance to Search Term
     + Results Displayed Correctly
7. **User Experience (Usability)**
   * Layout and Design
     + Intuitive and Easy-to-Navigate Homepage
     + Consistency Across Platforms (Browsers/Devices)
   * **Help and Support**
     + Accessibility of Help Links
     + Navigation of Support Links
8. **Performance Metrics**
   * Homepage Load Time
     + Target Load Time: Less than 3 seconds
     + Monitor Load Time for Optimizations
   * **Video Playback Performance**
     + No Buffering
     + Quick Start Time
     + Smooth Performance Across Connections
9. **Security Features**
   * Secure Login
     + Correct Handling of Invalid Credentials
     + Error Messages for Invalid Logins
   * **Data Protection**
     + User Data Privacy
     + Secure Connection (HTTPS)

### **Mind Map Visualization**

YouTube Testing Documentation

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Homepage Application Listing Performance & Security

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Video Feed Layout Notifications Search Subscriptions Watch Later Search Performance Security

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Rec Videos User-friendly Recent Relevance Display Add Video Relevant Load Time Login Security

Trending Intuitive UI Notifications to Search Term Channels to Watch Later Results Video Performance