

# FUNCTIONAL SPECIFICATIONS

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Version 1.0

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## 1. Technical Requirements

The following tables capture high level technical requirements from stakeholder interviews, competitive benchmarking and user research. The captured requirements are supplementary to the wireframes and will provide an overview of the complete set of requirements for the solution.

These requirements capture the functionality of the solution and are presented in high level detail. Specific details such as field names will be provided further in the design process. It should be noted that the requirements may evolve over time based on new findings through user testing. These initial requirements however will be used to drive the design and implementation of the early website.

### 1.1. Delivery

#	Requirement	Details
1	Streaming	Ability to stream high quality over a variety of platforms including desktop, tablet and mobile.
2	Simultaneous streams	Ability to simultaneous stream more than one content item over a variety of platforms including desktop, tablet and mobile.
3	Responsive design	Consistency in the user experience between a variety of platforms and device display sizes
4	Start / stop controls	Ability to start and stop video streams
5	Resume playback	Ability to pause a video on one device and continue playback at a later time on the same or a different device  Note : Requires user to be signed into account
6	Skip/next controls	Ability to skip the current video streams and jump to the one after
7	Closed captioning and subtitles	Ability to display text on the display to provide additional or interpretive information for accessibility
8	Descriptive audio	Ability to provide visual description of video stream for those accessibility

9	Colorblind mode	Ability to select specific colour palette to address users specific types of color blindness
10	Full screen mode controls	Ability to enlarge the video stream to cover the entire display surface
11	Stream quality controls	Ability to select the video stream quality to address streaming speed limitations
12	Playback speed controls	Ability to select speed to slow down or speed up video stream playback speed
13	Video playback navigation	Ability to select a specific time/frame in the video stream to start playback
14	Volume controls	Ability to control the audio sound level ranging from mute to maximum
15	Dark theme	Ability to toggle a dark colour theme which provides an ideal viewing experience for night or dark rooms

## 1.2. Content Categorization

#	Requirement	Details
1	Trending / popular	Content that is new and popular should be categorized into a specific group for viewers to browse
2	Genres	Content should be categorized in different genres and content types for users to browse
3	History / recent	Ability to see what was viewed previously /recently
4	Live now	Content that is being streamed live should be categorized into a specific grouping for viewers to browse
5	Recommended / because you watched	Users with membership will be presented with customized content based on history of what content they viewed /liked in the past

### 1.3. Search

#	Requirement	Details
1	Dynamic search	<p>This search uses keywords input by the user</p> <p>As the user types in the search terms, results are generated dynamically.</p> <p>Dynamic search starts providing results after the user enters in a single character in the search string and continues to continually update as the user types more characters</p> <p>Search is performed against content titles, tags, additional metadata and customization against the user's previous likes and viewing history</p> <p>Results are shown to the user in a drop down results generated from the search bar and are populated dynamically as the user types in the search string.</p> <p>These result strings can be selected from this drop down menu to load as the search term</p>
2	Dynamic search prioritization	<p>Results in the drop down results generated from the dynamic search are ordered based on content priority</p> <p>If the user has an account and has a history of viewed and liked content, customized search results hold the highest priority for dynamic search results.</p> <p>Following customized results, trending and popular videos hold the next highest weight for prioritization</p>

#### 1.3.1. Search Results

#	Requirement	Details
1	Search results page	<p>A new page with results is presented to the user after submitting their search string</p> <p>This search page appears as the outcome of the following scenarios:</p> <ul style="list-style-type: none"><li>• User enters in a string and selects the "Go" button</li></ul>

		<ul style="list-style-type: none"><li>• User enters in a few characters and selects a suggested search string in the Dynamic search, then selects one of those suggested strings</li><li>• User accesses the content via "Browse by Genre"</li><li>• User accesses the content via "Trending/Popular"</li><li>• User accesses the content via "Live Now"</li></ul>
2	Result prioritization	Results with higher weighting will be displayed at the top of the search results page based on string relevance, matching titles, tags, metadata and user customization
3	Filtering	Search results can be filtered based on the following criteria : <ul style="list-style-type: none"><li>• Upload Date</li><li>• Content Type</li><li>• Duration</li><li>• Features</li></ul>
4	Sorting	Search results can sorted by the following criteria: <ul style="list-style-type: none"><li>• Relevance</li><li>• Upload Date</li><li>• View Count</li><li>• Rating</li></ul>

#### 1.4. Navigation

#	Requirement	Details
1	Top navigation	<p>A global navigation that allows users to navigate the website</p> <p>Ability to quickly return to the home page</p> <p>Ability to content categories and genres (trending, followed content creators , followed</p> <p>Ability to quickly navigate to playlist/favourites</p> <p>Ability to add content or remove content from playlist/ favourites</p> <p>Ability to access content creator functionality and options</p> <p>Ability to view history or recently watched content</p>

		<p>Ability for the user to see if they are signed in and if not sign in / sign out</p> <p>Ability for the user to view their account information</p> <p>Ability for users to check their notifications of any events such as new releases that match their previous viewing history, messages from other users which have liked or commented on the users videos, subscription expiry dates</p> <p>Ability for the user to upload content</p>
2	Language switcher	<p>The content and website language by default will be presented based on the main local language identified for the users region</p> <p>The website will detect where the user is based geographically using GPS and location based services</p> <p>Users have the ability to change their default language and locations as they prefer</p>
3	Search navigation	<p>Ability to search content through multiple browsing paths and entry points</p> <p>Content item details will be consistent no matter which browsing path the user takes</p>
4	Search bar	<p>This search bar is a consistent element throughout the website and allows the user to search from any place in the site</p> <p>This consistent global search bar enables dynamic search functionality</p>

### 1.5. Membership

#	Requirement	Details
1	Sign up	<p>Ability for users to create a user account with a unique user name and password</p> <p>Note : User names and passwords must meet policies set by VisoCast (no names with profanity or weak passwords)</p>

2	Sign in	<p>Ability for users to sign into their accounts and access user account features such as :</p> <ul style="list-style-type: none"><li>• Customized recommendations</li><li>• Recently watched/history list</li><li>• Billing &amp; payments</li><li>• Social community functions</li><li>• Uploaded content</li><li>• Likes</li><li>• Comments</li><li>• Activity of followed content creators</li></ul>
3	Sign out	Ability for users to sign out of their accounts and close their sessions
4	Reset password	Ability for users to reset their passwords in the event they have forgot their original one
5	Request username	Ability for users to request their username in the event they have forgotten
6	Two-factor authentication	<p>Ability for users to setup two-factor authentication for another layer of security, this request the user to provide a special 5 digit code to further authenticate their identity.</p> <p>Two factor authentication can be setup via :</p> <ul style="list-style-type: none"><li>• Soft/hard token</li><li>• Texting a cell phone via SMS</li><li>• Email sent to the email account used to sign up</li></ul>
7	Recognized devices	<p>Ability for users to add a devices to a list of recognized devices so they do not need to repeat the two factor authentication process on devices after the initial time</p> <p>Devices on this list can be removed in the event that the user loses or changes devices</p>
8	Advertisement opt-in/opt-out	<p>Ability for users to opt in or opt out of advertisements</p> <p>Users gain credits towards their billing/payments for opting into advertisements.</p>



9	Billing/payments	Ability for users to select a section or content of their choice (unique billing model) and pay via their payment of choice  Users are only billed for content they consume
10	Account review	Ability for users to view their recent purchases/ payments, account overview including: <ul style="list-style-type: none"><li>• User Email</li><li>• User Region and Language</li><li>• Payment history</li><li>• Viewing History</li><li>• Shared content</li><li>• Content creators followed</li><li>• User uploaded video views</li><li>• Content creator badge level</li><li>• Comments</li><li>• Advertisement opt-in opt out status</li><li>• Billing/Payment Credit</li><li>• Close an account</li><li>• Contact VisoCast for help</li></ul>

## 1.6. Community

#	Requirement	Details
1	Subscribe to a another user	Ability for users to follow another user  Users will be notified of other user actions such as uploads, likes, shares, comments
2	Remove a subscription	Ability to unfollow other users
3	Share content with followers	Ability to share content with followers of your account
4	Like or dislike content	Ability to like or dislike content

5	Comments	Ability to leave a comment regarding content
6	Flag offensive content / comment	Ability to flag offensive user generated content /comments
7	Watch as a group	<p>Ability to watch the same content concurrently with other users real-time</p> <p>Simulates sitting in the same room with another person and watching together on a couch</p> <p>The user with the remote has control over the content playback controls</p>
8	Live broadcast	<p>Ability for users to broadcast live stream from their capture device real-time</p> <p>Other users can comment during live broadcast</p>
9	Share to other social media networks	Ability for users links to user generated content or content on VisoCast via a link on social media sites such as Facebook, Twitter and Pinterest
10	Content creator badge levels and rewards	<p>Functionality and perks for content creators who reach a certain badge level by the number of followers, content uploads and likes for their uploaded videos</p> <p>The idea of badge levels it to spark users to upload content that people will like to watch and reward content creators with exclusive access to events, tools and resources</p> <p>All content uploaded will be vetted by VisoCast teams and removed if user generated content does not meet the standards/guidelines established by the company</p>