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DOCUMENTATION

WEB MEDIA PLAYER – Shaka Player

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1 Subject Description:

The shaka_player project is to develop a web page with video element by using Media Source Extension (Shaka Player) to play the Dash Contents.

2 Subject Analysis:

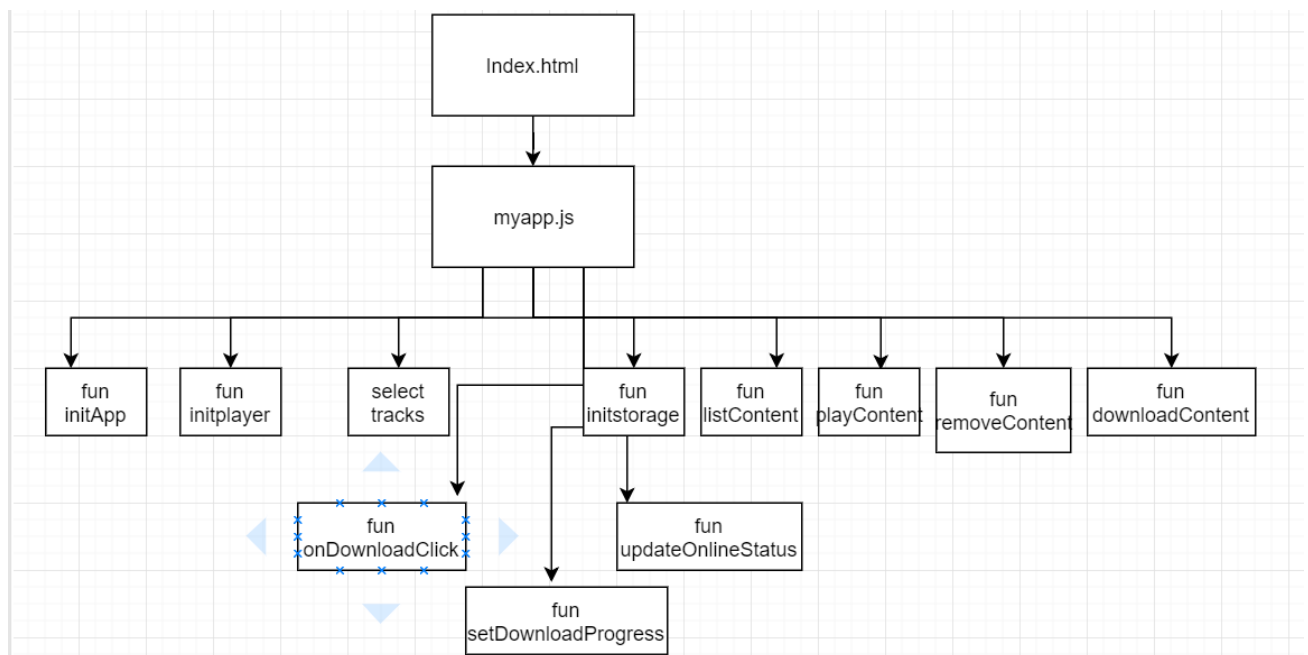
2.1 Major Features

- Dash playback with shaka player
- Offline playback using shaka player

3 CONCEPTION

3.1 Global Application Flow

The expected flow is



Index.html

This is the UI part which creates the button and table to download the songs , save it, play and delete the songs. This is linked with the myapp.js which implements the UI logics.

Myapp.js

This javascript file has many functions to implement the UI logics.

1. function initPlayer() – To load the video
2. function selectTracks(tracks) – To select the highest bandwidth track
3. function initStorage(player) – To initialize the storage
4. function listContent() – To return all the downloaded contents
5. function playContent(content) – This is to play the offline content
6. function removeContent(content) – To remove the content from the storage
7. function downloadContent(manifestUri, title) – To save the content to the storage
8. function onDownloadClick() – To disable the download until the download completes
9. function updateOnlineStatus() – To update the status box with respect to the internet connection
10. function setDownloadProgress(content, progress) – To display the progress during the download
11. function refreshContentList() – To clear the table and repopulate.

