Lab 4 - Bit 'N Bytes Youtube Data

Fields to update/insert/delete:

- Insert new data entry:
    - Video title
    - Channel name
    - Trending Date
    - Published Date
    - # of Likes
    - # of Dislikes
    - # of Comments
    - Comments enabled/disabled
- Update current data entry:
    - Edit video title
    - Edit channel name
    - Edit Trending Date
    - Edit Published Date
    - Edit # of Likes
    - Edit # of Dislikes
    - Edit # of Comments
- Delete data entry

Data import/backup:

- User can upload data of same format to database
- User can backup data of current database state
    - Restore by reimporting the backup

GUI Design:

Please Enter Information Below

Video Title

Channel Name

Trending Date
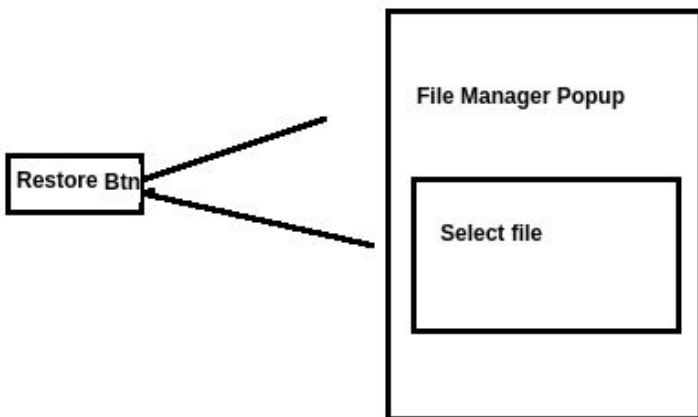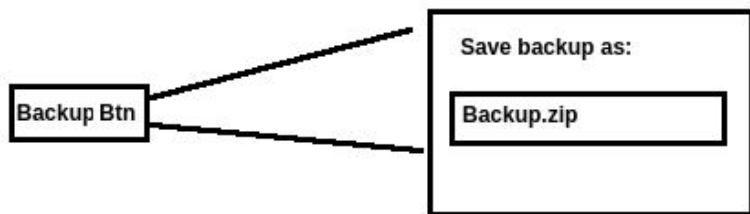
Published Date

Category

Number of Likes

Number of Dislikes

Number of Comments

Video Title	Channel Name	Trending Date	Pub Date	Category	# Likes	# Dislikes	# Comments		
Viral video	Viral channel	Today	Yesterday	Family	20000	1	30000		

Edit Btn

Delete Btn

Backup Btn

Save backup as:

Backup.zip

Restore Btn

File Manager Popup

Select file

Search analytics 🔍

Insert

FILTER

STATS

DATES

TAGS

VIDEO PROPERTIES

More than x views

Trending Date

Video Tags

Comments Disabled

More than x likes

Publish Date

Channel Name

More than x dislikes

More than x comments

User Test Cases:

Test Case #	Test Case Description	Test Input	Expected Output
1	Delete functionality deleting non-existent data	"Inspiring Quotes From Miley Cyrus"	Return error message and wait for next command
2	Updating with a null or blank string	""	Insert/Update functionality skips over this data, produces error message, and moves on
3	Update functionality putting in an emoji into video title	😋	Ignore emoji character and put all valid characters in
4	Putting a non-integer value into Number of ___s	4k5	Error message asking for a numeric value
5	Verify that entering a new entry into the database works	Video title: "Viral video" Channel name: "Viral channel" Trending Date: "10/22/2020" Published Date: "10/21/2020" # of Likes: 1000000 # of Dislikes: 1 # of Comments: 9999 Comments enabled/disabled: true	Creates new entry in database, and syncs up with client to show new data
6	Input for category should be within the category set given by the data	update Category: UC Riverside	Server returns and error, and client shows the error telling the user the category does not exist

7	Verify data successfully deletes from the database	Delete entry	Entry is no longer present on the database, and client syncs up with the database no longer displaying the entry on the client side.
8	Verify update entry successfully updates entry on database	Update entry	Entry data is updated in the database, and the change is reflected on the client side.
9	Verify we don't importing corrupted/insufficient data	Try importing 1kb csv and json	Server throws error, imported data is corrupted, please try again
10	Verify we don't import incorrect data	Try importing a pdf file.	Server throws error, incompatible file type, please upload a csv and json pair.
11	Verify we can import data	Import valid csv json pair	Data on database is replaced with new data
12	Verify we can backup data	Steps: 1. Backup data 2. Make some changes to data 3. Import backup from step 1	Data should be restored to its original state from step 1.

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[TaskBoard Current Sprint](#)