

Porting of proxyMITY on Web

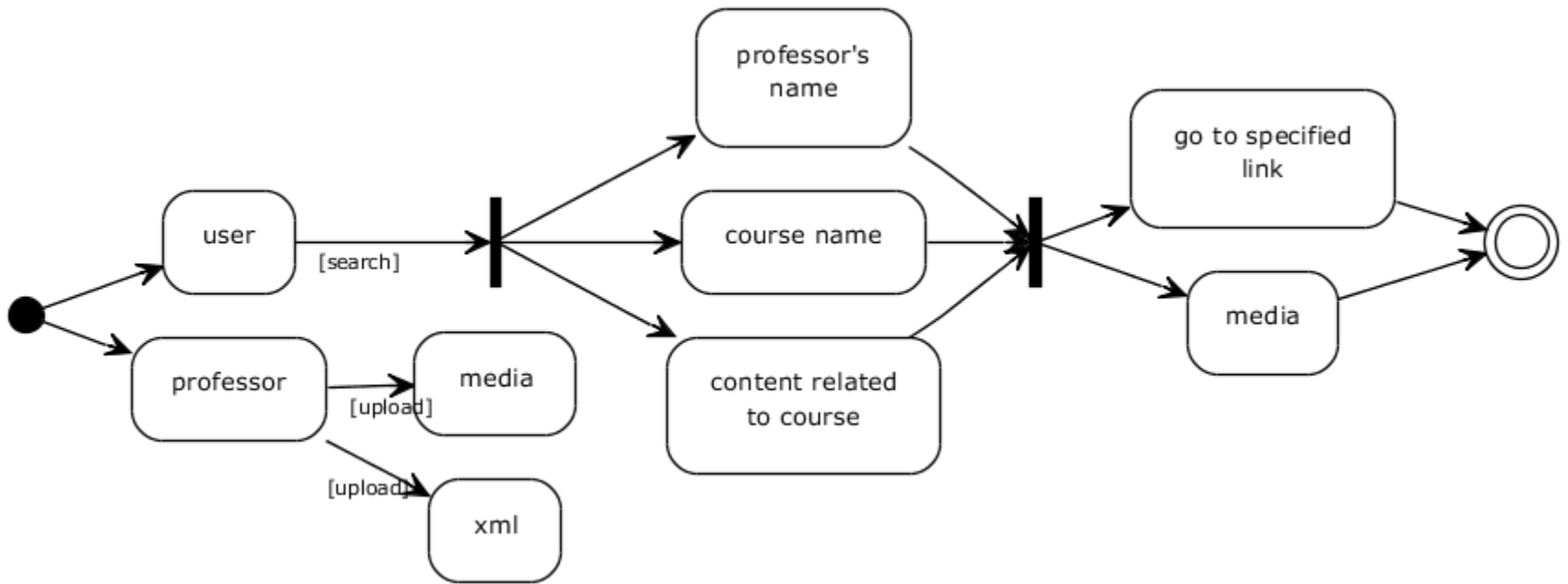


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What is proxyMITY?

1. Multimedia Integration Tool.
2. Used to create dynamic, distributable rich media lectures.
3. Allows to create a lecture by importing the Lecture Video, Presentation slides & XML file.
4. Allows us to search & view the published lectures, and easily navigate to specific topics within the lecture.
5. Sharing of synchronized published lecture over the web can be done.

Activity Diagram



Functions of proxyMITY-Web

1. **Add lectures:-** Uploading videos, slides and XML file corresponding to the lecture. After uploading, a Java code is run to update the JSON file having tags and a XML file having list of videos currently available.
2. **Search engine :-** To search the published lecture video by entering the related keywords into the search text box.
3. To navigate to the required topics using tree structure of topics.
4. Can view videos/slides on full screen using controls provided

Search Page

proxyMITY

Sudarshan x

Constructs x

Enter Keywords

2 lecture(s) found.

SQL

Course : DBMS

Speaker : Prof. Sudarshan

SQL

Course : DBMS

Speaker : Prof. Sudarshan

Web page with lecture

Course: DBMS

Speaker: Prof. Sudarshan

Presentation: SQL

Contact: 916856952



Introduction to SQL

Introduction to SQL

Introduction To SQL 1

History

Domain Types in SQL

Table Constructs

Table Constructs2

+ Table Constructs

Query Structure

+ Clauses

- Operation

Null Values and Three Valued Logic

- Any comparison with *null* returns *unknown*
 - Example: $5 < \text{null}$ or $\text{null} <> \text{null}$ or $\text{null} = \text{null}$
- Three-valued logic using the truth value *unknown*:
 - OR: $(\text{unknown or true}) = \text{true}$,
 $(\text{unknown or false}) = \text{unknown}$
 $(\text{unknown or unknown}) = \text{unknown}$
 - AND: $(\text{true and unknown}) = \text{unknown}$,
 $(\text{false and unknown}) = \text{false}$,
 $(\text{unknown and unknown}) = \text{unknown}$
 - NOT: $(\text{not unknown}) = \text{unknown}$
 - "*P is unknown*" evaluates to true if predicate *P* evaluates to *unknown*
- Result of **where** clause predicate is treated as *false* if it evaluates to *unknown*

Introduction to SQL Table Constructs Derived Relation Clauses Natural Joins Aggregate Function Modifi

XML File :-

```
<?xml version="1.0" encoding="UTF-8"?>
<ProxyMITY>
  <Details>
    <videoName>DBMS_L3_Introduction to SQL(WT).mp4</videoName>
    <CourseName>DBMS</CourseName>
    <Presentation>SQL</Presentation>
    <Speaker>Prof. Sudarshan</Speaker>
    <Contact>916856952</Contact>
  </Details>
  <Link name="DBMS">
    <url>D://data/links/DBMS.pdf</url>
  </Link>
  <Link name="SQL">
    <url>D://data/links/SQL.doc</url>
  </Link>
  <Theme name="Introduction to SQL">
    <SlideName>Introduction to SQL.PNG</SlideName>
    <StartTime>00:00:00</StartTime>
    <EndTime>00:00:10</EndTime>
  </Theme>
  <Theme name="Introduction to SQL">
    <SlideName>Introduction To SQL1.PNG</SlideName>
    <StartTime>00:00:15</StartTime>
    <EndTime>00:00:20</EndTime>
  </Theme>
  <Theme name="History">
    <SlideName>History.PNG</SlideName>
    <StartTime>00:00:20</StartTime>
    <EndTime>00:00:30</EndTime>
  </Theme>
```

Technologies Used

1. HTML5
2. CSS3
3. JavaScript/jQuery
4. JSON
5. XML
6. AJAX

Plugins Used

- **AutoSuggest** :- used for providing suggestions while typing keywords for searching lectures.
- **VideoJS** :- used for providing various helper functions for managing videos on the web page – seeking, fullscreen, fallback on older browsers.
- **Carousel** :- used for the slide show.
- **Tooltip** :- used for the thumbnails on the tree structure.

Bibliography

- <http://code.drewwilson.com/entry/autosuggest-jquery-plugin>
- <http://videojs.com/>
- <http://twitter.github.com/bootstrap/javascript.html>
- <http://twitter.github.com/bootstrap/javascript.html#tooltips>
- <http://twitter.github.com/bootstrap/javascript.html#carousel>

Thank You...