

Entities

- ① Grammar Roles
- ② Vocab Entries
- ④ Sentences
- ⑤ User Profiles
- ③ Topics
- ⑥ Sessions.

Sessions.

User handle
User ID

Creation Stamp
Lock Timestamp.

① Grammar Role

- Role Name : string
- Role Definition : string

② Vocabulary Entry

- Root : string
- Text : string
- Translation : string
- wordType : enum
- Conjugation :
- Verb Form :
- Noun Type :

③ Topic

• Name

- Contextual Name : str
- Analytical Name : str
- Localized Contextual : str
- Localized Analytical : str
- Is PseudoTopic : bool

- Dependencies

- Find Links

- Intersection

- Role Conjugation Pairs:

List < Tuple < GRth, Conj > >

④ Sentence

- Text : S+V
- Translation : S+V
- Type
- Locality
- Grammar Entries
- Grammar Analysis
- Contextual Analysis
- Tags : S+V[]
- Role (obj) Pairs
- Primary Topic

S

- Secondary Topics
- Questions
- Media

⑤ User Profile

- * State M/C States
 - ↳ Histories
 - ↳ Weaknesses
 - + Learning Type Scores.
-

Course State Machine

↳ Get All possible Topics

↳ Get Next Topic

↳ Do Find Links

Topic State Machine

↳ Get Next Section

↳ Mark Complete

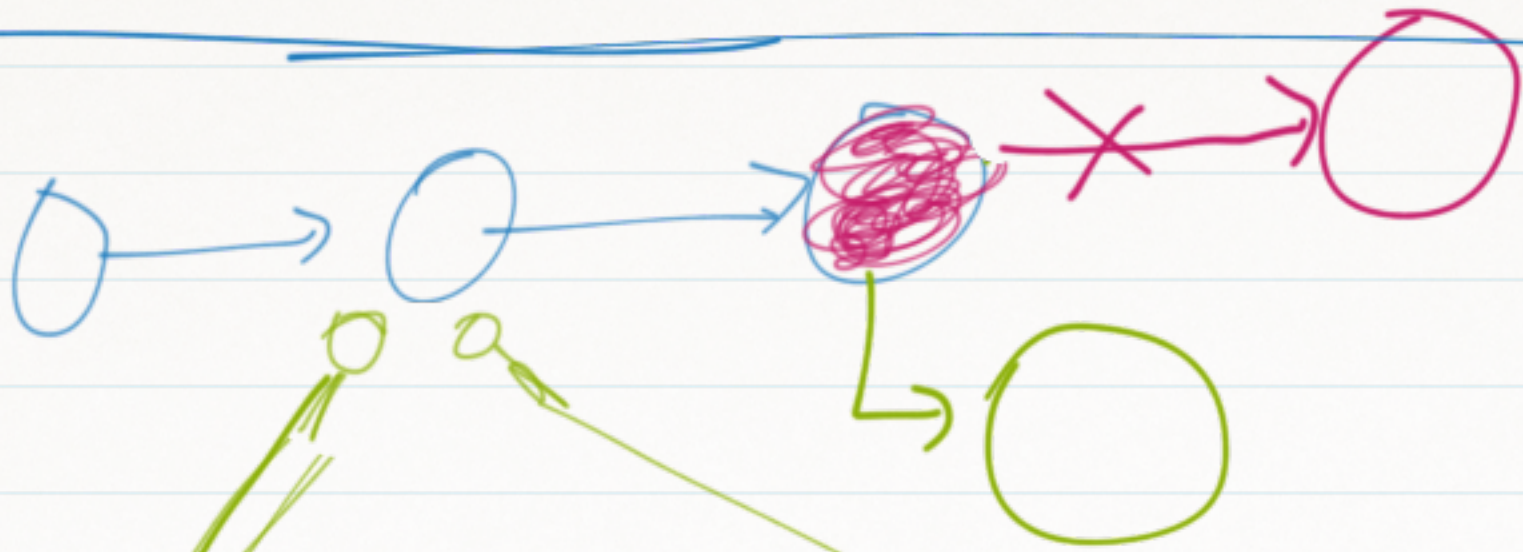
Section State M/C

↳ Get ~~Next~~ Sentence
 → (Sentence, Intent)

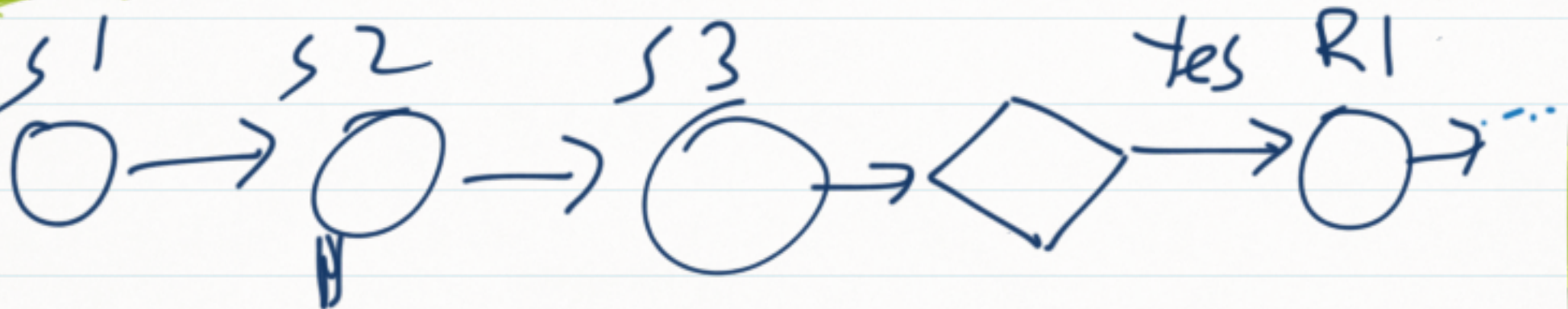
Section State

↳ Calls into all the
 filters to select a
 sentence

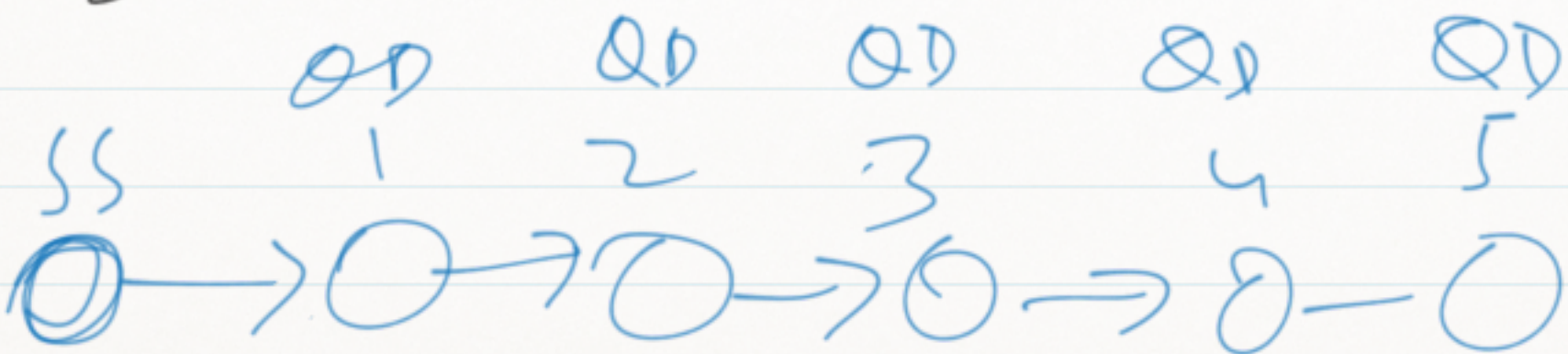
Course State MLC



Topic: state m/c



Section state m/c



How to prevent 2 user sessions
from interfering

Maintain ~~per~~ user locks
w/ timeouts

User locks are in a separate
Collection.

workflow for course m/c

Inputs

1. User Topic History
 2. User Major weaknesses
 3. Dependency Graph.
 4. Suggested Path
-

Current Topic (ending)

Next Topic (starting)

Take current Topic

Update scores,
weaknesses

* Allow Topics to be marked complete by the user.

if current is successful
(understanding dimension
success).

- then find all possible
topics and calculate
distance with suggested
path. Pick min distance
node.

(contd on page 14)

User

Create Salt for each user.

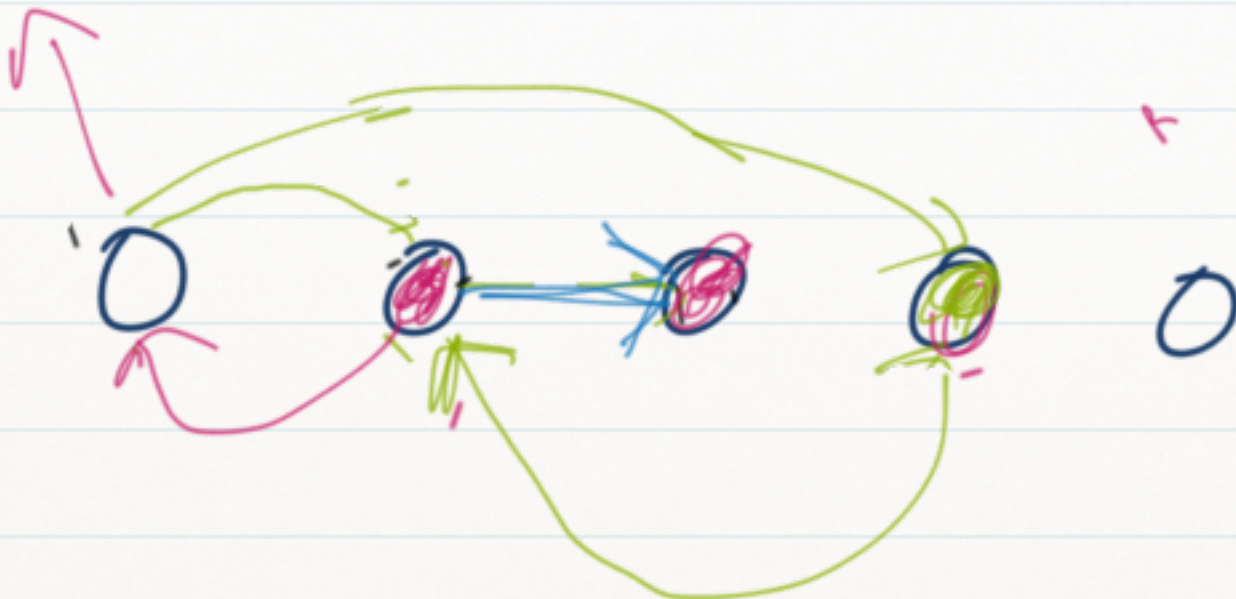
Send a cookie down to the user with id and salt

use that id for every function with the black box

if topic is failed then find
previous topic in use
history



user history



Maintain failed topic history

move to next topic.

if you can't move to
the next topic, then
move to the last success-
ful topic in user history
and figure out possibilities
from there.

If candidate

topic has distance >

greater ~~than~~ 2 from
the first failed topic
then move to the first
failed topic.

Topic: State m/c

Intro Section State
 Not-Started

In Progress

Complete
 current slide

if (Not-Started)

then

Show first slide
 record slide number
 update state to
 In Progress.

Section

- Intro
- Sample
- Revision

keep going until last
slide.

When complete, Make
AB Completed

Sentence State - Illustration
Count

1. Show sample sentence
 2. Show QD1,
 3. Show QD2
 4. Show QD3
 5. Show QD4
 6. Show QD5
-

After every iteration,
 Make sure if the score
 has reached a certain level
 of understanding.

Change Section State to
 Revision.

For each Unlocked topic
 record answers

* Course State m/c

* Remember to trigger Pseudo
 Courses.

* Every Umbrella topic is a weakness.

* Write the Analytical Contextual Score Thing first

? How does The State gets skipped?

skipping Analytical
 CD c: The user is Contextual

Handwritten notes in blue ink on lined paper. The notes are organized into a table with 4 columns and 10 rows. The first column contains dates, and the second column contains descriptions of events or activities. The remaining three columns are empty.

Date	Event/Activity		
Jun 26, 2011	Quantae Design Book		

Handwritten notes in blue ink on lined paper. The notes are organized into a table with 4 columns and 10 rows. The first column contains dates, and the second column contains descriptions of events or activities. The remaining three columns are empty.

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Jun 26, 2011	Quantae Design Book		

Handwriting practice area with horizontal lines.

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Date	Event/Activity		
Jun 26, 2011	Quantae Design Book		

Handwritten notes in blue ink on lined paper. The notes are organized into a table with 4 columns and 10 rows. The first column contains dates, and the second column contains descriptions of events or activities. The third and fourth columns are empty.

Date	Event/Activity		
Jun 26, 2011	Quantae Design Book		

Handwriting practice area with 20 horizontal blue lines.