

A Voice-Enable Video Quiz and an Unrestricted Transcript Editing System

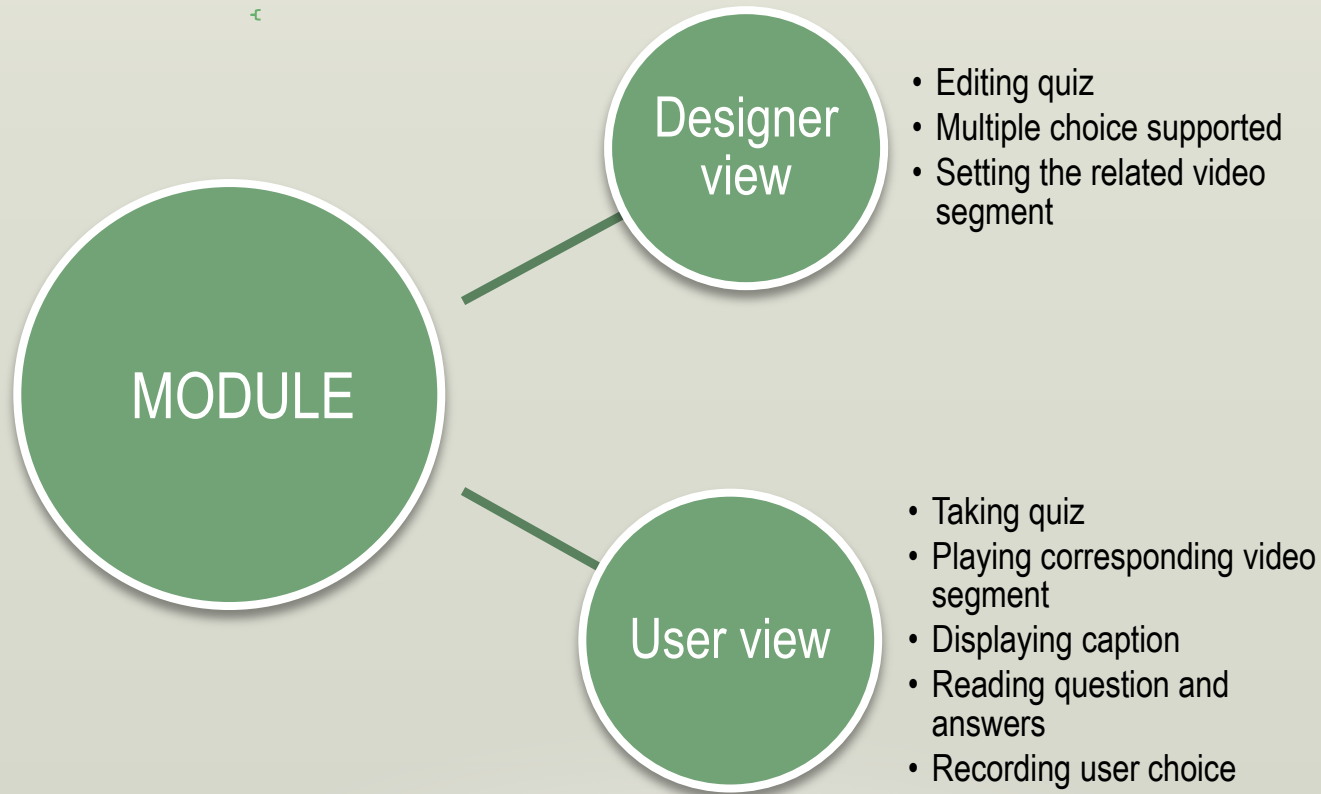
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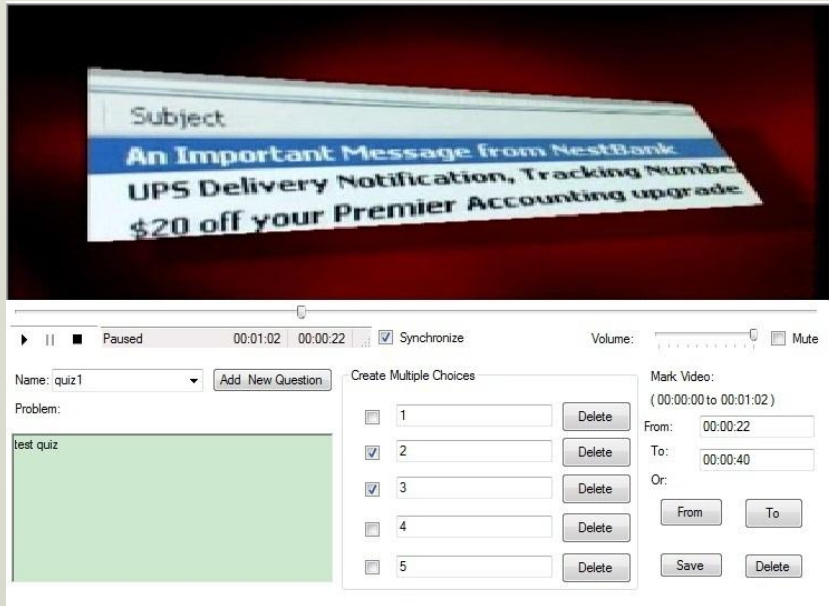
The Video Quiz System

- **What is the video quiz and the video quiz system?**
 - The video quiz is a type of quiz designed for students to study while watching the video learning material. questions and answers for each quiz are related to the content of a specific scene in the video.
 - The video quiz system is an integrated environment for video quiz designing and displaying. Separated views with different functions are implemented to fulfill the different needs of teachers and students.
 - **Main features**
 - Duel-view
 - Caption system
 - Text-to-speech
-

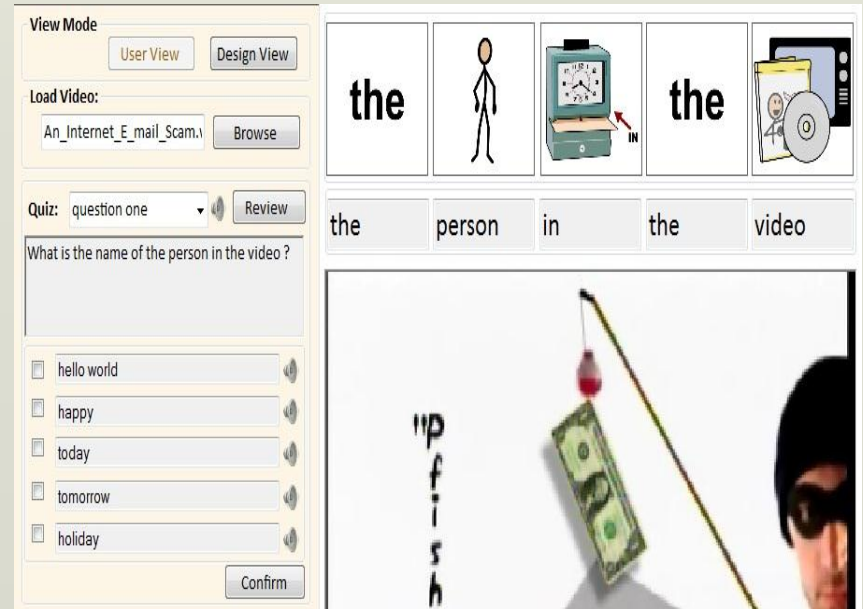
Module & Functions



Duel-View



Designer View



User view

Designer View

- Quizzes will be saved in XML format:

```
<QUIZ Name="quiz1" To_Position="40"  
From_Position="22">
```

```
<Content>test quiz</Content>
```

```
<MultipleChoices>
```

```
<Choices Checked="False" Text="1"/>
```

```
<Choices Checked="True" Text="2"/>
```

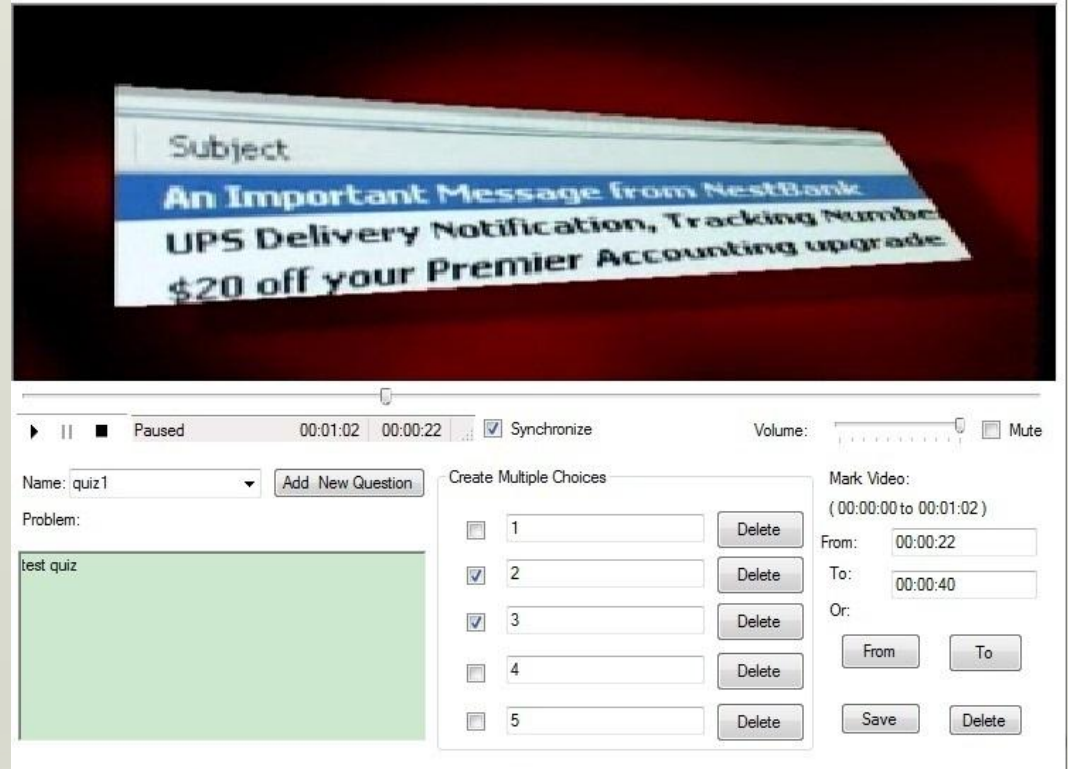
```
<Choices Checked="True" Text="3"/>
```

```
<Choices Checked="False" Text="4"/>
```

```
<Choices Checked="False" Text="5"/>
```

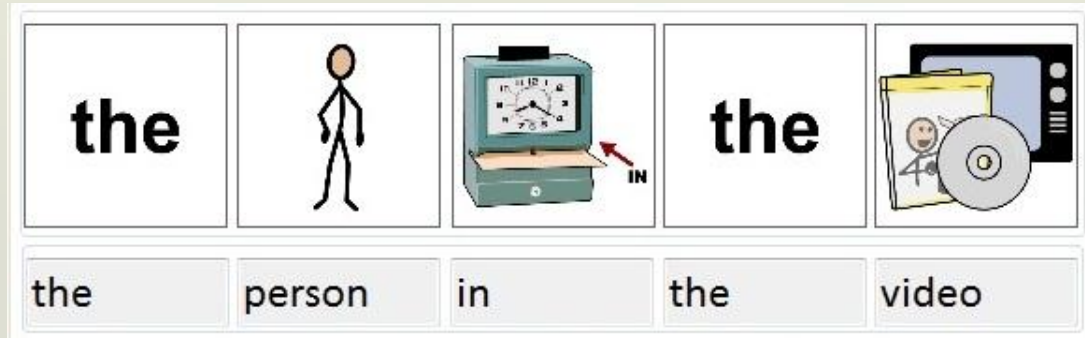
```
</MultipleChoices>
```

```
</QUIZ>
```



User View

- Caption system
- Automatically **searching** from Database
- Symbol db
- **Text-to-speech** q/a read out
- Microsoft TTS engine



Quiz: question one Review

What is the name of the person in the video ?

hello world 🔊

happy 🔊

today 🔊

tomorrow 🔊

holiday 🔊

Confirm

The Unrestricted Transcript Editor

- What is The unrestricted transcript editor?

The **free** transcript editor is a convenient tool for teachers to correct and edit the transcript automatically generated by the speech recognition engine.

- What is the difference between our editor and the normal text editor?

The difference between the transcript editing and the normal text editing is that a transcript has timestamps which must be kept, so that the transcript can be played synchronously to the video. Since each editing method, e.g. add, change or delete, may influence timestamps afterward, the editor should be able to distinguish different operations such as insertion, deletion, merge or change.

Editor View

Key Words:

Simple, easy to use

- Operations:

insert, delete, replace, change lines.

some Internet criminal specialized in another kind of spam basin so called fishing emails to u
it more often than not fishing schemes start with emails that claim that a bank or other financ
they generally have a link that supposed to to be a legitimate web site that will clear up the p
but the site is freight although it may look like the real thing it often ask for names on the acc
so if you ever get an e-mail like this the best thing for you to do is delete it

New View

DBTranscript

Transcript File: C:\ACTIV302_Research\WMP\WMPVid Symbol

Line: 0

some Internet criminals specialize in another kind of scam this and so called fishing emails to unsuspecting victims two steals Social Security numbers credit card information and other private

ID

Time Offset (ms)

Text

Time Length (ms)

Visible True False

ID	Text	Time Offset	Time Length	Symbol	Visible
0	some	3040	370		True
1	Internet	3450	480		True
2	criminals	3930	630		True
3	specialize	4560	780		True
4	in	5340	290	C:\ACTIV302_Research\...	True
5	another	5660	580	C:\ACTIV302_Research\...	True
6	kind	6240	260		True
7	of	6500	90		True
8	scam	6590	930		True
9	this	7520	320	C:\ACTIV302_Research\...	True
10	and	7840	210	C:\ACTIV302_Research\...	True
11	so	8050	230	C:\ACTIV302_Research\...	True
12	called	8280	420		True
13	fishing	8720	680	C:\ACTIV302_Research\...	True
14	emails	9420	660		True

Words: 42.
15Words per Page, 1/3Pages

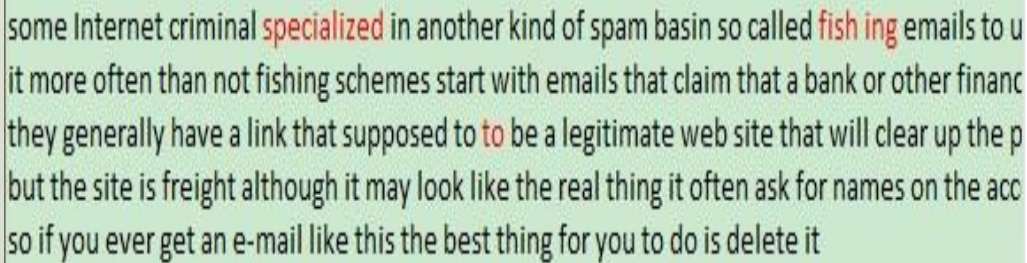
Old View

Distinguish the Operations

Key words:

Color is the key

- Add : Original < Changed
- Delete: Original > Changed
- Replace: Original = Changed



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so if you ever get an e-mail like this the best thing for you to do is delete it

Adjust the Timestamps

- The transcript is saved in XML format:

```
<LINE>
```

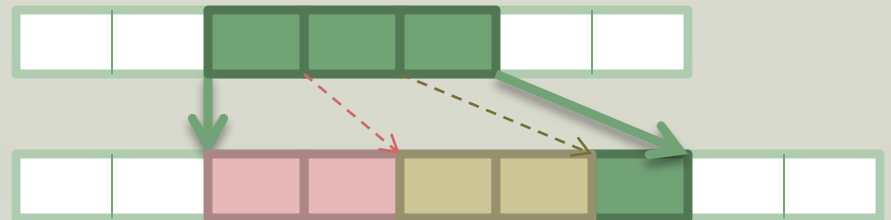
```
<CAPTION CNT="1" VISIBILITY="TRUE"  
  LENGTH="370" SYNC="1520"  
  CAPTIONTEXT="some" ID="0"/>
```

```
<CAPTION CNT="1" VISIBILITY="TRUE"  
  LENGTH="444" SYNC="1890"  
  CAPTIONTEXT="Internet" ID="1"/>
```

```
<CAPTION CNT="1" VISIBILITY="TRUE"  
  LENGTH="444" SYNC="2334"  
  CAPTIONTEXT="criminal" ID="2"/>
```

```
</LINE>
```

- Our goal is to minimize the influence to the original time stamps.
- Keep as many original SYNC tags as possible.
- Reduce the influence of the length of each word.



Conclusion

- Preliminary results show that our quiz system can easily create and take video quizzes, and the new caption and TTS features can help students with disabilities to understand the video content easily.
 - The results also show that our transcript editor can help teachers to edit the transcript freely without any restrictions, which can save them a lot of time in transcript editing.
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The End
