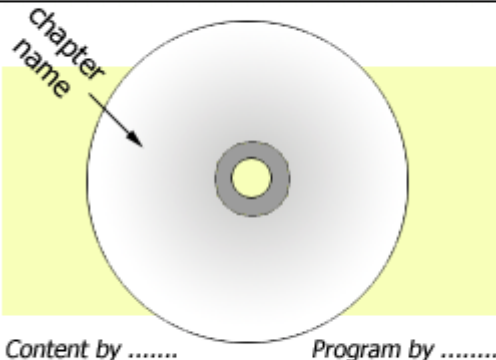


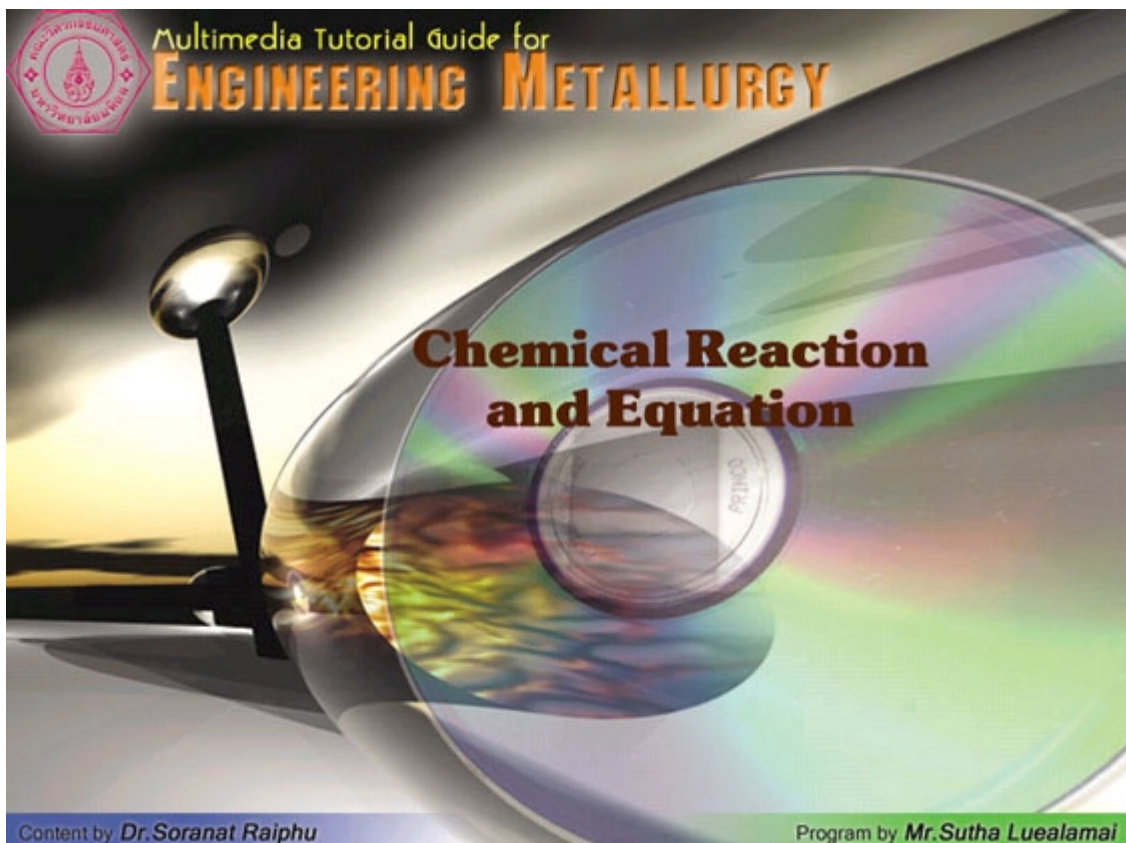
APPENDIX II
STORYBOARDS AND CORRESPONDING SCENES

APPENDIX II

STORYBOARDS AND CORRESPONDING SCENES

Name Title	Ref.No. T-01		Remark
	Media	File name	
	<input type="checkbox"/> Text	-	-
	<input checked="" type="checkbox"/> Graphic	Title.jpg	-
	<input checked="" type="checkbox"/> Animation	Title.swf	-
	<input checked="" type="checkbox"/> Sound	Title.swa	-
	<input type="checkbox"/> Others	-	-
Memo : Chapter name increase opaque value and move from each corner to center. Click mouse or press any key to enter Main menu.			

(a)



(b)

Figure II.1 (a) Storyboard and (b) Scene of page “Title”.

Name Main menu	Ref.No. M-01		Remark									
	Media	File name										
ENGINEERING METALLURGY	<input type="checkbox"/> Text	–	–									
<table border="1"> <tr><td>About this material</td></tr> <tr><td>Search</td></tr> <tr><td>What is inside?</td></tr> <tr><td>Further reading</td></tr> <tr><td>How to use this material</td></tr> <tr><td>Disclaimer</td></tr> <tr><td>Acknowledgement</td></tr> <tr><td>About US</td></tr> <tr><td>Exit</td></tr> </table>	About this material	Search	What is inside?	Further reading	How to use this material	Disclaimer	Acknowledgement	About US	Exit	<input checked="" type="checkbox"/> Graphic	<i>Main.jpg</i>	–
About this material												
Search												
What is inside?												
Further reading												
How to use this material												
Disclaimer												
Acknowledgement												
About US												
Exit												
	<input type="checkbox"/> Animation	–	–									
	<input checked="" type="checkbox"/> Sound	<i>M_intro.swa</i>	–									
	<input type="checkbox"/> Others	–	–									

Memo : ... *Click any button to enter subtopic or click "exit" to quit program.*

..... *Link from -* *Link to any subtopics of the EM-CAI.*

(a)

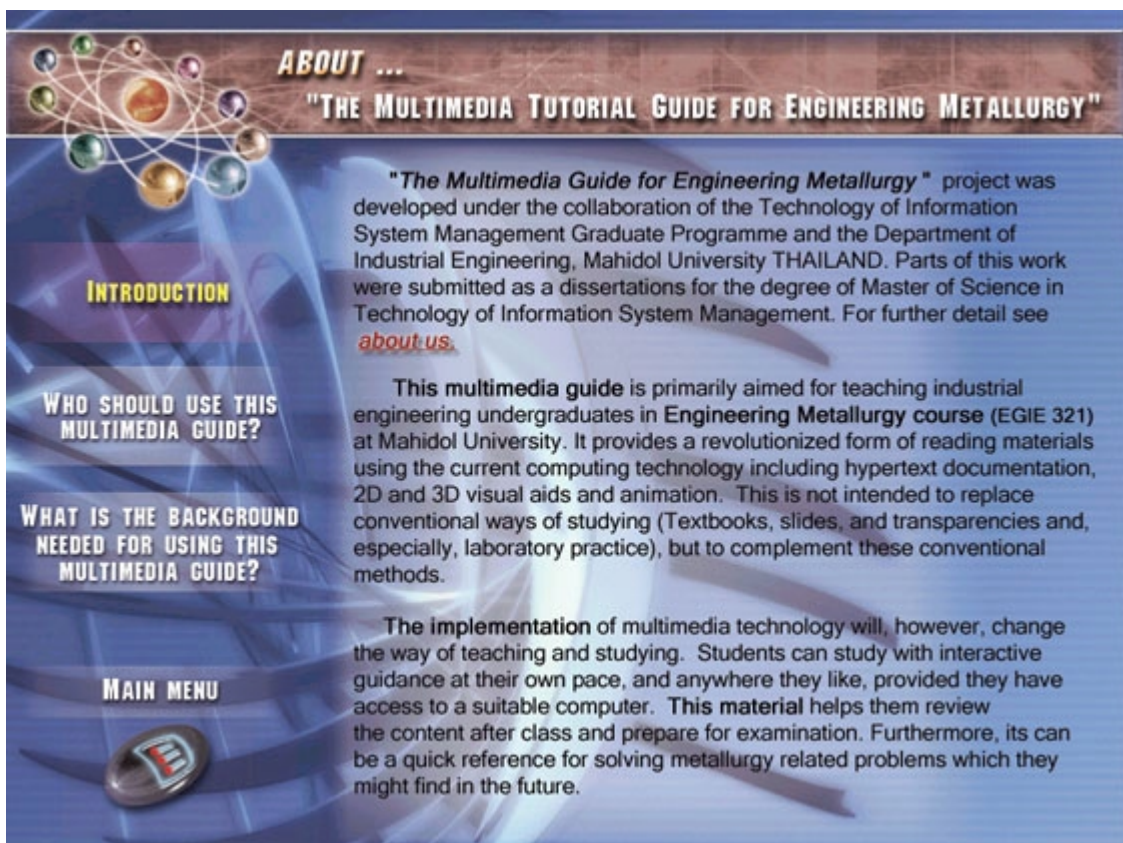


(b)

Figure II.2 (a) Storyboard and (b) Scene of page “Main menu”.

Name <i>About this material</i>	Ref.No. <i>S-01</i>		Remark
	Media	File name	
	<input checked="" type="checkbox"/> Text	<i>about1.txt</i>	—
	<input checked="" type="checkbox"/> Graphic	<i>about1.jpg, etc.</i>	—
	<input type="checkbox"/> Animation	—	—
	<input checked="" type="checkbox"/> Sound	<i>M_intro.swa</i>	—
	<input type="checkbox"/> Others	—	—
Memo : ... <i>Click subtopic to view corresponding content.</i>			
..... <i>Link from M-01.</i> <i>Link to -</i>	

(a)

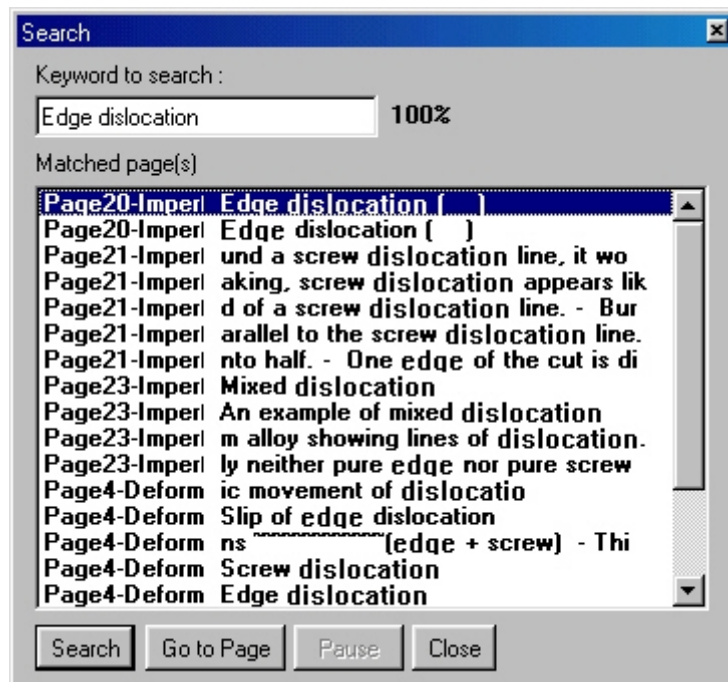


(b)

Figure II.3 (a) Storyboard and (b) Scene of page “About this material”.

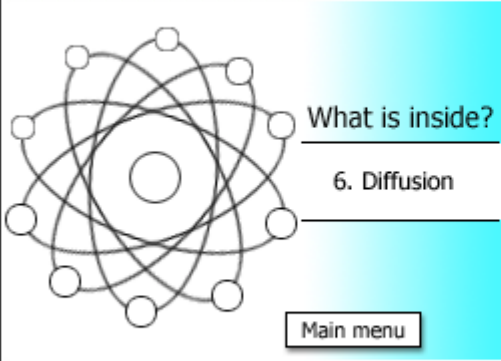
Name Search	Ref.No. S-02		Remark
	Media	File name	
<div style="background-color: #ffffcc; padding: 5px;"> <div style="text-align: right; margin-bottom: 5px;">Search</div> Keyword : <input type="text"/> <input type="button" value="search"/> <div style="text-align: center; margin: 10px 0;">↓</div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 0 auto;">Search result</div> </div>	<input type="checkbox"/> Text	-	-
	<input type="checkbox"/> Graphic	-	-
	<input type="checkbox"/> Animation	-	-
	<input checked="" type="checkbox"/> Sound	M_intro.swa	-
	<input type="checkbox"/> Others	-	-
Memo : ..Call search function to findd content from Keyword..... <div style="display: flex; justify-content: space-between;"> Link from M-01 or C-01 or C-02 Link to (depend on search result) </div>			

(a)

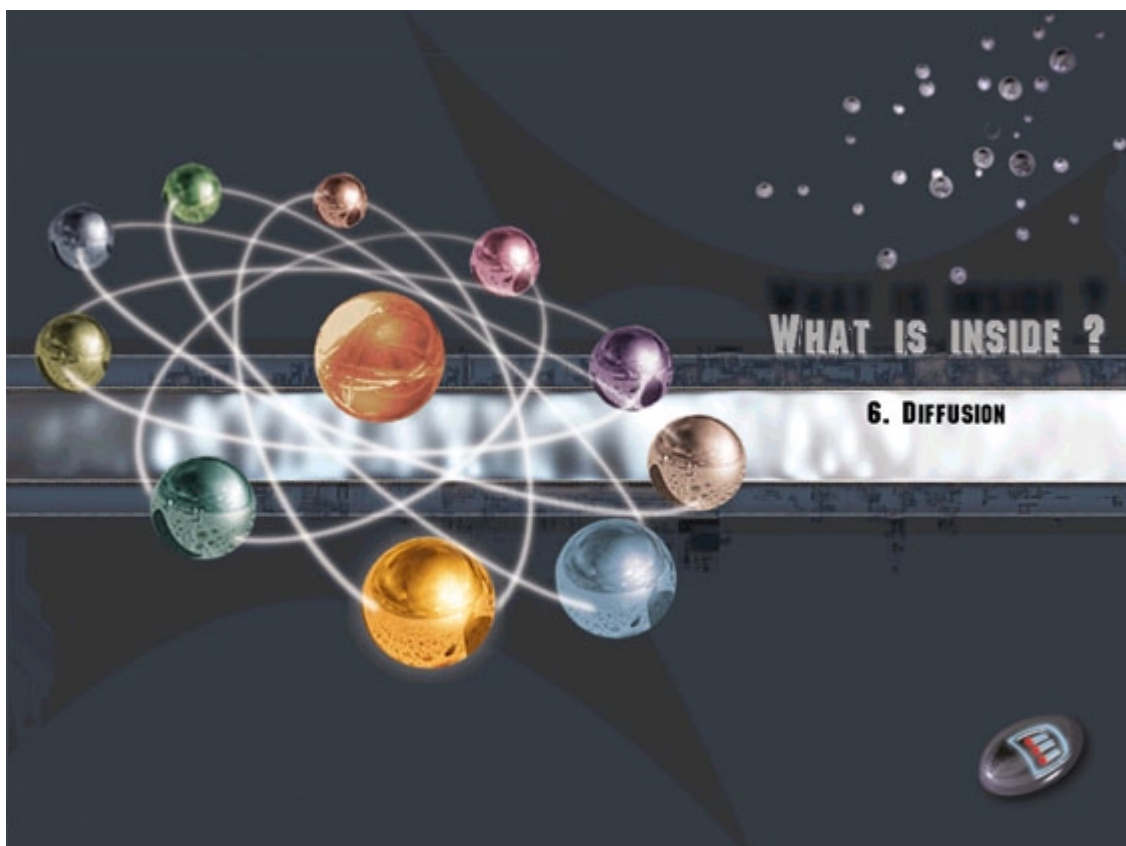


(b)

Figure II.4 (a) Storyboard and (b) Scene of page “Search”.

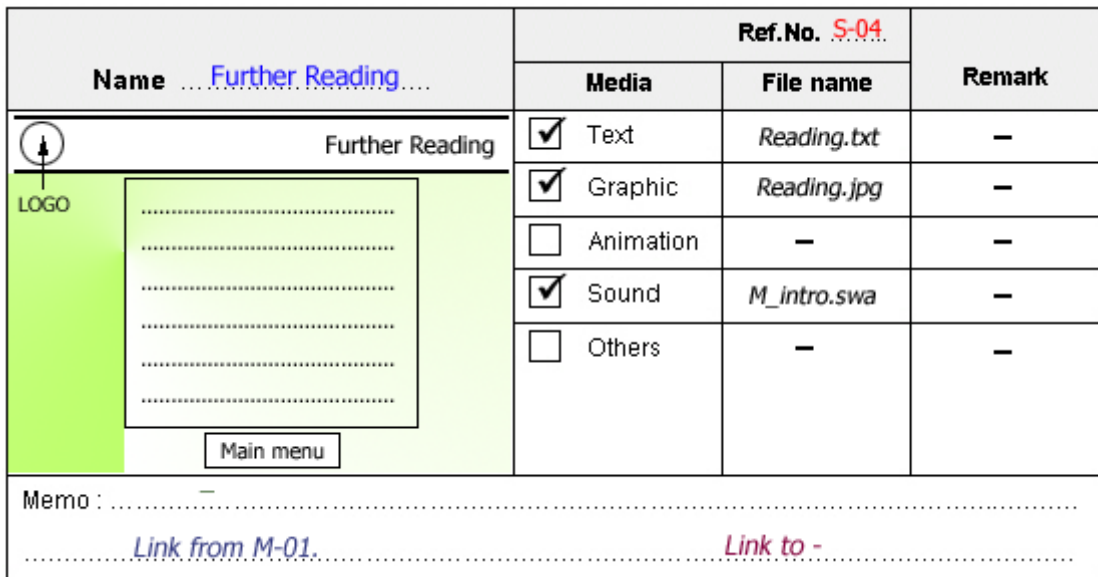
Name <u>What is inside</u>	Ref.No. <u>S-03</u>		Remark
	Media	File name	
	<input type="checkbox"/> Text	–	–
	<input checked="" type="checkbox"/> Graphic	<i>inside.jpg, etc.</i>	–
	<input type="checkbox"/> Animation	–	–
	<input checked="" type="checkbox"/> Sound	<i>M_intro2.swa</i>	–
	<input type="checkbox"/> Others	–	–
Memo : ... <i>Click sphere shape to enter each chapter.</i> <i>Link from M-01</i> <i>Link to any chapter in the EM-CAI.</i>			

(a)



(b)

Figure II.5 (a) Storyboard and (b) Scene of Title

Name Further Reading	Ref.No. <i>S-04</i>		Remark
	Media	File name	
	<input checked="" type="checkbox"/> Text	<i>Reading.txt</i>	—
	<input checked="" type="checkbox"/> Graphic	<i>Reading.jpg</i>	—
	<input type="checkbox"/> Animation	—	—
	<input checked="" type="checkbox"/> Sound	<i>M_intro.swa</i>	—
	<input type="checkbox"/> Others	—	—
Memo : <i>Link from M-01.</i> <i>Link to -</i>			

(a)

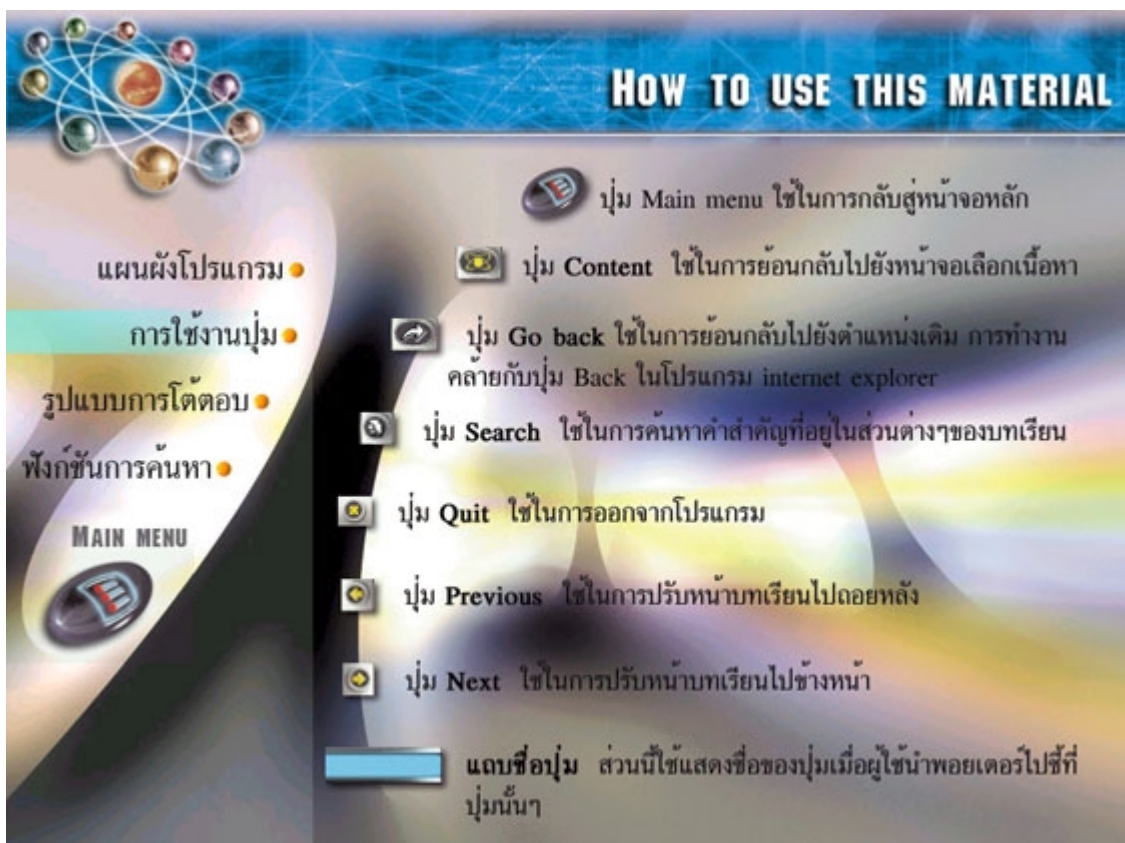


(b)

Figure II.6 (a) Storyboard and (b) Scene of page “Further reading”


Name How to use this material	Ref.No. S-05		Remark
	Media	File name	
	<input checked="" type="checkbox"/> Text	<i>Reading.txt</i>	—
	<input checked="" type="checkbox"/> Graphic	<i>Reading.jpg</i>	—
	<input type="checkbox"/> Animation	—	—
	<input checked="" type="checkbox"/> Sound	<i>M_intro.swa</i>	—
	<input type="checkbox"/> Others	—	—
Memo : ... Click subtopic to view information about the EM-CAI. Link from M-01. Link to subtopics within this page.			

(a)

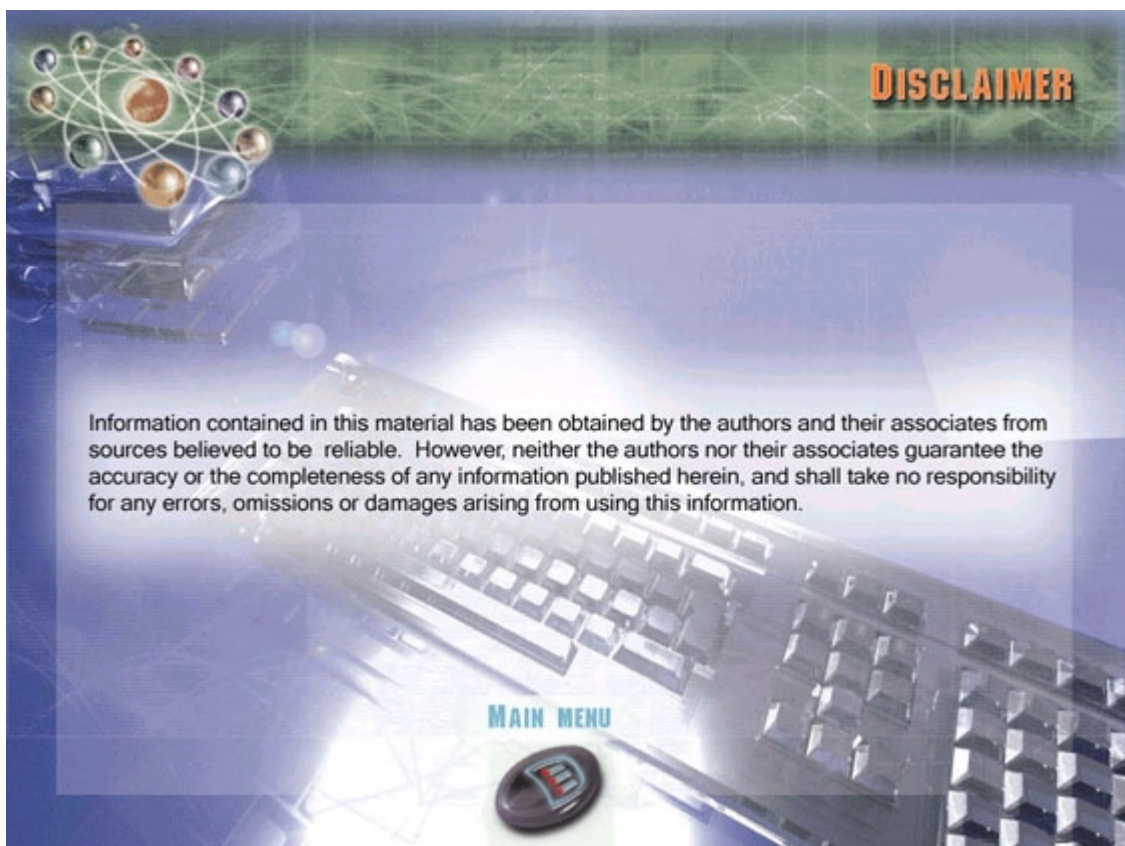


(b)

Figure II.7 (a) Storyboard and (b) Scene of page “How to use this material”

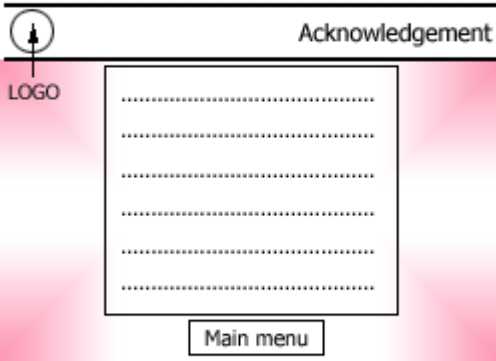
Name <i>Disclaimer</i>	Ref.No. <i>S-06</i>		Remark
	Media	File name	
	<input checked="" type="checkbox"/> Text	<i>Disclaimer.txt</i>	—
	<input checked="" type="checkbox"/> Graphic	<i>Disclaimer.jpg</i>	—
	<input type="checkbox"/> Animation	—	—
	<input checked="" type="checkbox"/> Sound	<i>M_intro.swa</i>	—
	<input type="checkbox"/> Others	—	—
Memo : <i>Link from M-01.</i> <i>Link to -</i>			

(a)

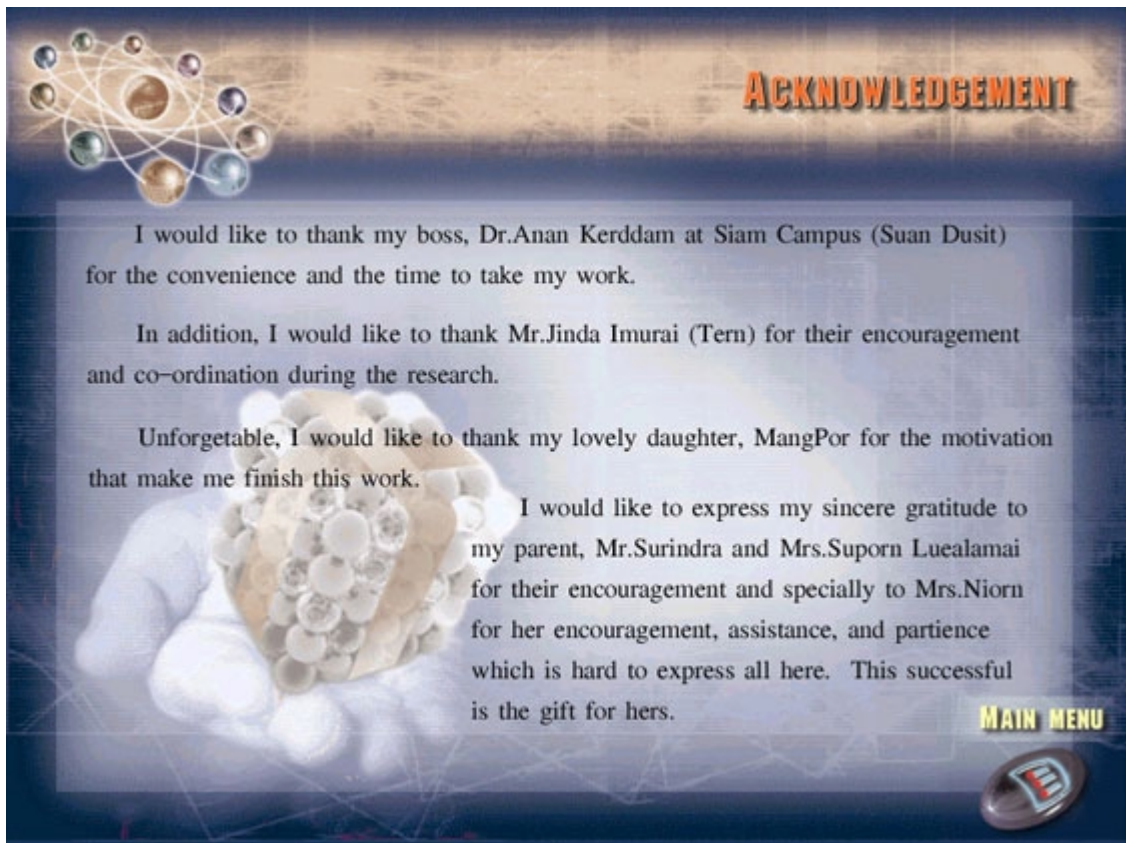


(b)

Figure II.8 (a) Storyboard and (b) Scene of page “Disclaimer”

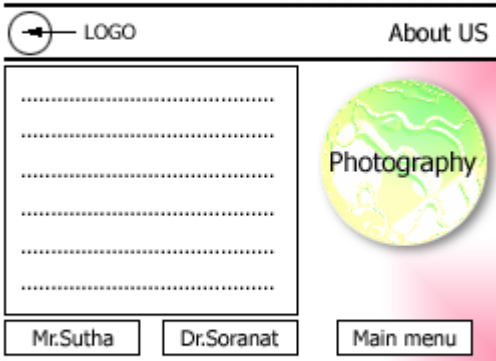
Name .. Acknowledgement ..	Ref.No. S-07		Remark
	Media	File name	
	<input checked="" type="checkbox"/> Text	Ack.txt	-
	<input checked="" type="checkbox"/> Graphic	Ack.jpg	-
	<input type="checkbox"/> Animation	-	-
	<input checked="" type="checkbox"/> Sound	M_intro.swa	-
	<input type="checkbox"/> Others	-	-
Memo :			
..... Link from M-01. Link to -	

(a)

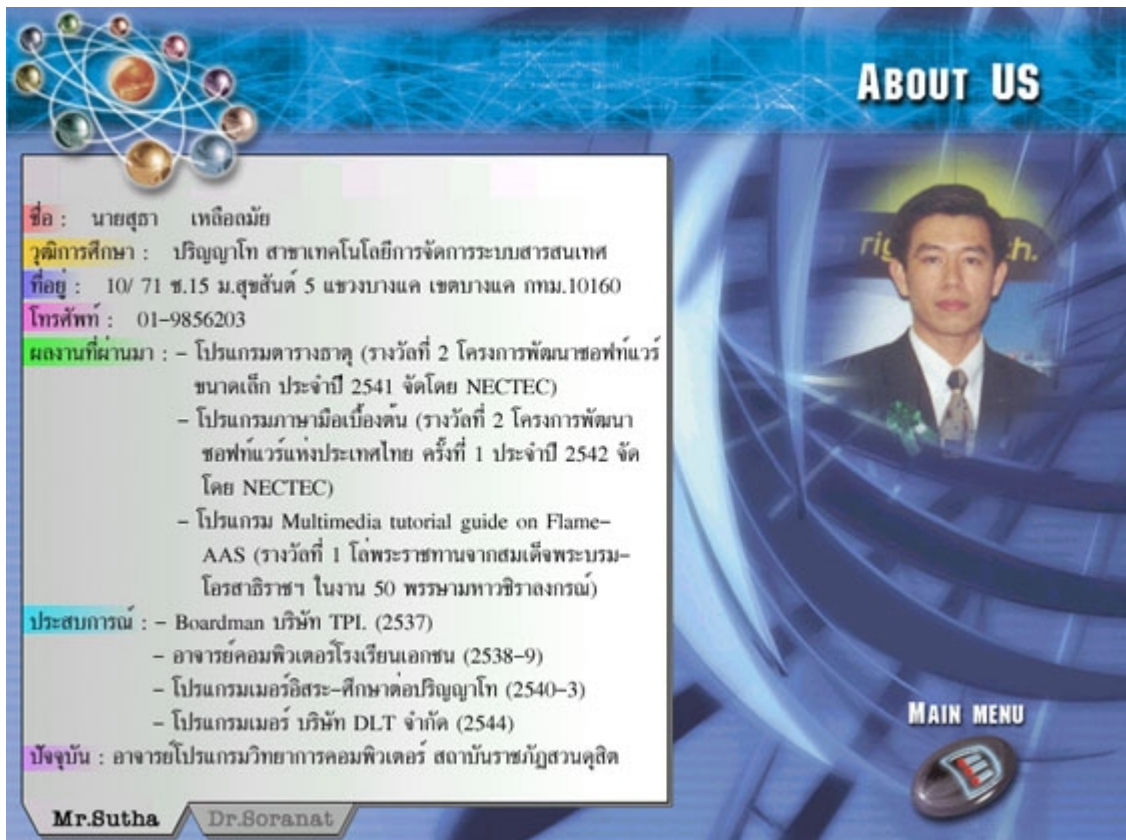


(b)

Figure II.9 (a) Storyboard and (b) Scene of page “Acknowledgement”

Name About US	Ref.No. S-08		Remark
	Media	File name	
	<input checked="" type="checkbox"/> Text	US.txt	—
	<input checked="" type="checkbox"/> Graphic	US.jpg	—
	<input type="checkbox"/> Animation	—	—
	<input checked="" type="checkbox"/> Sound	M_intro.swa	—
	<input type="checkbox"/> Others	—	—
Memo : <i>Display the staff's information, Dr.Soranat and Mr.Sutha.</i>			
..... <i>Link from M-01.</i> <i>Link to -</i>	

(a)



(b)

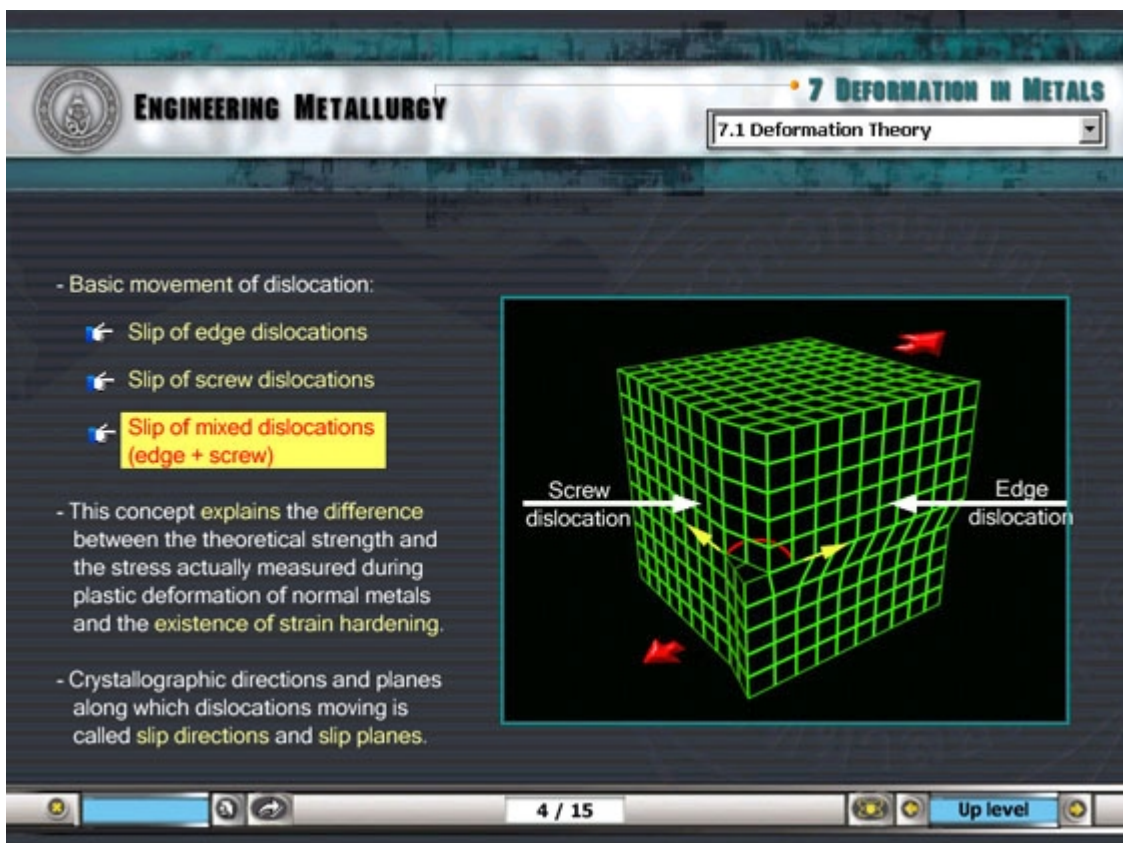
Figure II.10 (a) Storyboard and (b) Scene of page “About US”

Name Contents		Ref.No. C-01		Remark
Media	File name			
<input checked="" type="checkbox"/> Text	***			—
<input checked="" type="checkbox"/> Graphic	***			—
<input checked="" type="checkbox"/> Animation	***			—
<input type="checkbox"/> Sound	—			—
<input type="checkbox"/> Others	—			—

<p>Engineering Metallurgy</p> <p>Chapter name</p> <p>LOGO</p> <p>Sub-topic</p> <p>Content (Text, graphics, animation, etc.)</p> <p>Navigator bar</p> <p>X Search Go back [page number] < ↑ ></p>

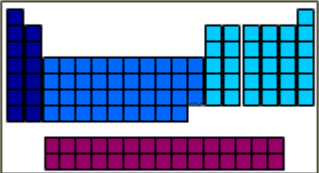
Memo : : depend on the content. Choose subtopic from List-box and explore by navigator bar.
 Link from S-03 or HyperLink. Link to any page depend on user.

(a)

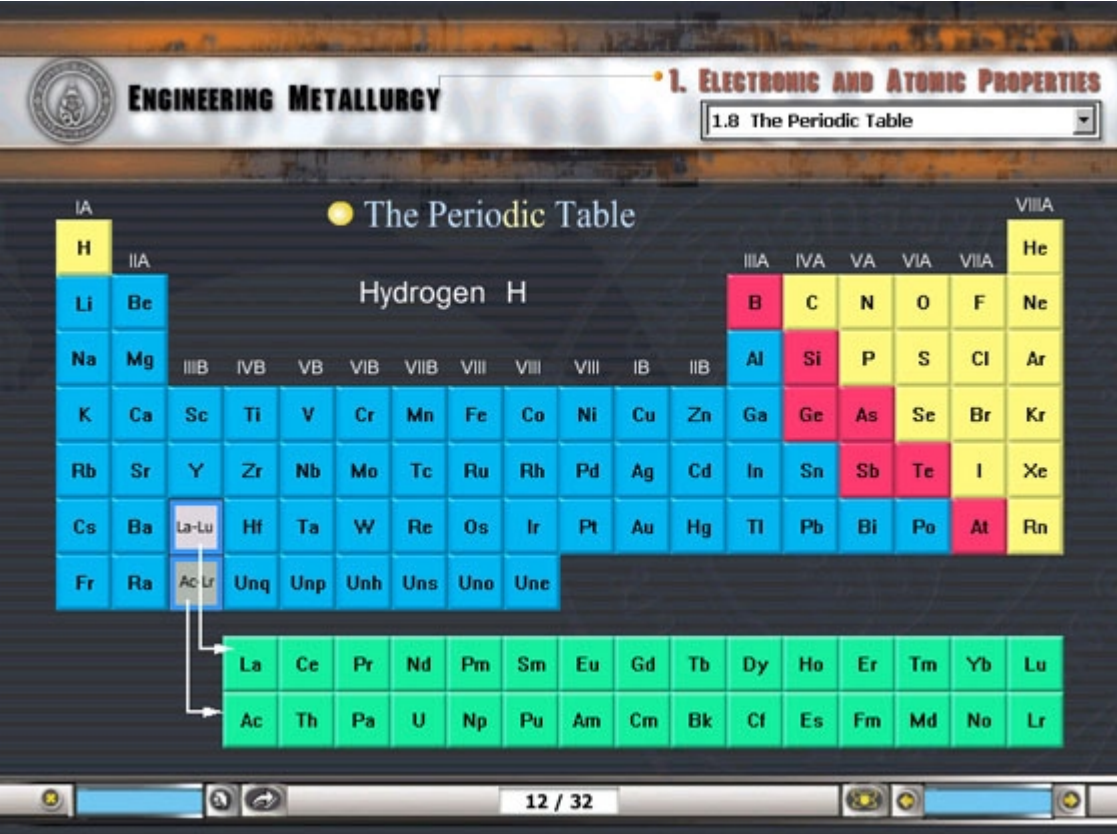


(b)

Figure II.11 (a) Storyboard and (b) Scene of page “Content”

Name <u>Periodic</u>		Ref.No. <u>C-02</u>		Remark
		Media	File name	
<input type="radio"/> Engineering Metallurgy Chapter name		<input type="checkbox"/> Text	-	-
		<input checked="" type="checkbox"/> Graphic	*.jpg	<i>relevant files</i>
		<input type="checkbox"/> Animation	-	-
		<input type="checkbox"/> Sound	-	-
		<input type="checkbox"/> Others	-	-
X Search Go back [page number] < ↑ >		Memo : <i>Each element is represented by one button. (click to see info. in C-03)</i> <i>Link from -</i> <i>Link to C-03.</i>		

(a)



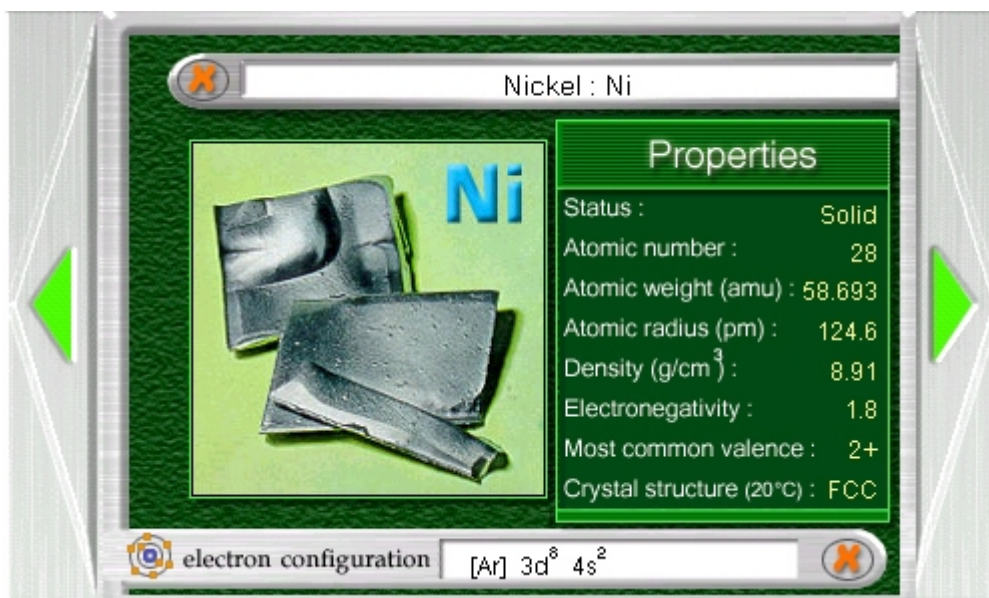
The screenshot shows a digital interface for 'Engineering Metallurgy'. At the top, there is a navigation bar with the course name and a dropdown menu set to '1.8 The Periodic Table'. The main content area is titled 'The Periodic Table' and displays a periodic table where elements are represented by colored buttons. The table is organized into groups labeled IA through VIII A. The elements are color-coded: Hydrogen (H) is yellow, Group IIA (Li, Be) is blue, Group IIIA (B, Al, Ga, In, Tl) is pink, Group IVA (C, Si, Ge, Sn, Pb) is yellow, Group VA (N, P, As, Sb, Bi) is pink, Group VIA (O, S, Se, Te, Po) is yellow, Group VIIA (F, Cl, Br, I, At) is pink, and Group VIII A (He, Ne, Ar, Kr, Xe, Rn) is yellow. The lanthanide and actinide series are shown in green at the bottom. Navigation icons and a page number '12 / 32' are visible at the bottom of the scene.

(b)

Figure II.12 (a) Storyboard and (b) Scene of page “Periodic table”

Name Element		Ref.No. C-03		Remark
		Media	File name	
Element		<input checked="" type="checkbox"/> Text	*.txt	any relevant files
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; width: 150px; text-align: center;">Image or animation of element</div> <div style="margin-left: 20px;"> <p>Name of element</p> <p>.....</p> <p>Properties of each element.</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>electron config.</p> <p>Main menu << >></p> </div> </div>		<input checked="" type="checkbox"/> Graphic	*.jpg	any relevant files
		<input checked="" type="checkbox"/> Animation	*.avi	any relevant files
		<input type="checkbox"/> Sound	-	-
		<input type="checkbox"/> Others	-	-
		Memo : ... <i>Display the information of each element in the periodic table.</i>		
..... <i>Link from C-02.</i> <i>Link to -</i>		

(a)



(b)

Figure II.13 (a) Storyboard and (b) Scene of page “Detail of Element”.