KnowledgeVision Template Builder

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Project Goals

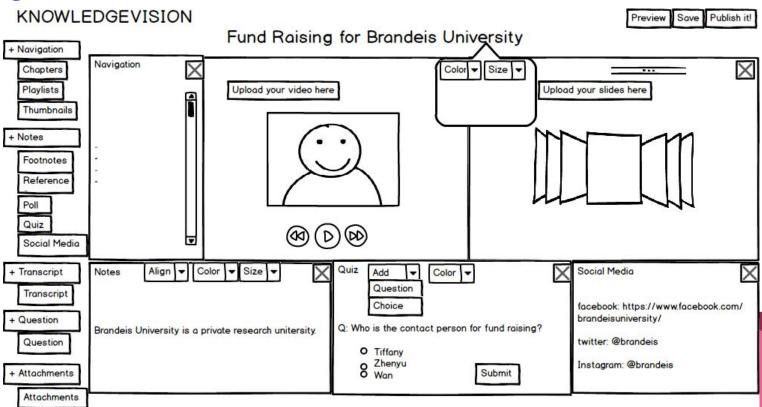
- Problem: Average user of KnowledgeVision...
 - Doesn't know front-end development
 - Doesn't have the funds to get a customized template made
- Solution: Create an application to facilitate the easy creation of customized templates for the average user
- Added benefit of allowing non-technical members of company support teams to be able to create custom player templates for demonstrations

What We Wanted To Accomplish

- Make the template design process as easy as possible
- Easy to use application that would allow users to create custom templates through ability to:
 - Include/exclude desired presentation components
 - Position those components as desired
 - Change the colors and customize font of either each individual component or the presentation as a whole (called a theme)
 - Import/Export by theme or template
 - Export by template results in a zip file ready to be uploaded to KnowledgeVision

UI Designs

Design Version 1.a



Design Version 1.b

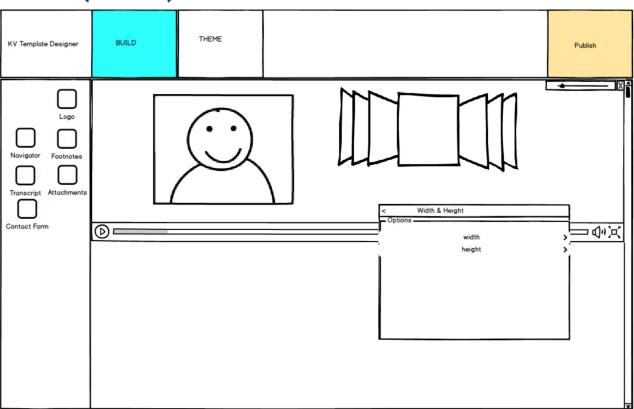
Knowledge Vision Design Wizard

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Branding	ComboPlayer	Navigator	Footnotes	Attachmer	nts Qu	uestion	Transcript	Social Media	Presentation Info
Logo	Upload		Orient	ation Le	ft 🔻				
Background	d Color 🔲		For	nt Ca	libri				
Primary Co	lor								
Secondary Color									

Design 2.0 (final)

KV Template Designer	BUILD	THEME	Publish
Comboplayer Logo Navigator Footnotes Transcript Attachments Contact Form	Workspace		

Design 2.0 (final)



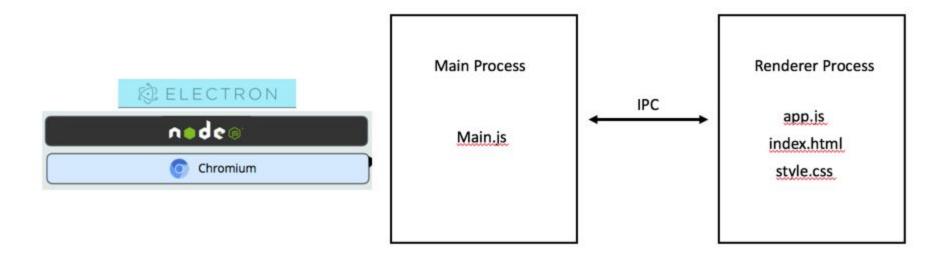
Design 2.0 (final)

KV Template Designer	BUILD	THEME	Publish
Color Palettes Palette Palette Palette Custom Colors Font Families Sans Serif Customize Font Fields	Workspace		

Development Platform

- Decided to create an Electron application
 - Electron:
 - new framework to create cross-platform applications (formerly know as Atom Shell)
 - Uses HTML/CSS/Javascript on top of Chromium and Node.js
 - Example of Electron Applications:
 - Atom
 - Slack

The Basic Architecture of an Electron Application



Obstacles and Challenges

General:

- Never developed anything using Electron before
- Relatively new to Javascript/HTML/CSS Development
- No to little knowledge of UI/UX design
- Project design was up to us -- open-endedness was a challenge!
- Semi-self-management was difficult

Specific

- o Generating a valid template (html and css file) based on variable input is hard
- Hard to test functionalities and hard to debug, especially testing the generated zip files

What We Accomplished

- Things we wanted to accomplish:
 - Easy to use application
 - include/exclude desired presentation components
 - position those components
 - Change the colors and customize font of either each individual component or the presentation as a whole (called a theme)
 - Import/Export by theme or template
 - Export by template results in a zip file ready to be uploaded to KnowledgeVision

What We Accomplished

Things we wanted to accomplish:

- Easy to use application wound up looking pretty similar to design 1.a
- include/exclude desired presentation components
- position those components
- Change the colors and customize font of either each individual component or the presentation as a whole (called a theme)
- Import/Export by theme or template can only do as a json file currently
- Export by template results in a zip file ready to be uploaded to KnowledgeVision can generate the zip file, but not working 100%

More Detailed Look at Application

Initial

- Run on electron
- Drag manu and video section

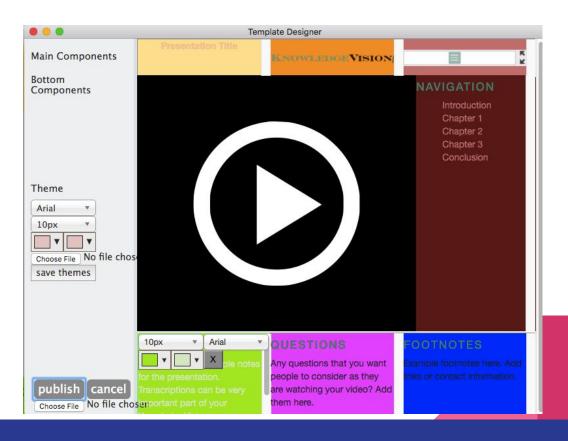
Drag and Drop

- Navigation can be drag to video and can be sorted with video
- Question, footnote, transcript can be dragged to the bottom and resize according to the number, sortable as well
- Logo, title and zoom-control can be dragged to the top and also sortable

Theme

- Change all the individual box css attributes
- GenerateHTML
 - Generate json file according to the user's preference
 - Generate validate html according to the json file

Time for our demo!



Things We Would Have Wanted to Implement/ Future Plans

- Transcript search box doesn't work well
- Uploading and downloading theme is only for json file
- Responsive template
 - Works locally, but have problems online when uploaded
 - Works for Chrome, but have problems for Safari
- Improve UI design
- Scroll bar shows sometimes (overflow:hidden;)

Thank you

- Michael Kolowich and Alex Kieft for your mentorship
- Pito Salas for his guidance and patience

Any Questions?