CTE Website

Tolu Akinyemi, Tsion Woldeab, Jae Lee

Dr. Edward Fox
CRN: 13414
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Virginia Tech, Blacksburg VA 24061
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Outline

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- Implementations
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- Timeline
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**Motivation and Background**

Dr. Murali requested a new Content Management System for functionality

<table>
<thead>
<tr>
<th>Previous CTE Website</th>
<th>Our Client’s Goals</th>
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</thead>
<tbody>
<tr>
<td>● Long process to stage, preview, and publish website</td>
<td>● Ways to automatically update information</td>
</tr>
<tr>
<td>● Not easy to maintain/edit website</td>
<td>● Easy process to edit information / add new information</td>
</tr>
<tr>
<td>● Need ways to improve automation in website</td>
<td>● Easily preview and stage website</td>
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</tbody>
</table>

Our solution: Wordpress
Deliverables

● Admin should have the ability to edit permissions
● A new entry can automatically be added to a list
● Live Preview of Changes
● Certain fields can display a list of categories
● Customization should be robust without the need for coding
Site Architecture
Implementations - Custom Post Types and Taxonomies

**Custom Post Types:** User-created custom content types
- People
- Research
- News
- Events

**Taxonomies:** Is a way to put posts together based on a set of connections (Categories)
- Faculty, Current Student, Alumni
- Research Opportunities, Current Research Projects
- None for News
- Occurring, Passed
## Implementations - Tools/Plugins

<table>
<thead>
<tr>
<th>Plug-ins</th>
<th>Front-end/Back-end</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementor</td>
<td>Front-end</td>
<td>- Makes it easy to modify the front-end</td>
</tr>
<tr>
<td>CPT UI</td>
<td>Back-end</td>
<td>- Makes it easy to create CPTs and taxonomies</td>
</tr>
<tr>
<td>ACF</td>
<td>Back-end</td>
<td>- Allows us to create CPT fields</td>
</tr>
<tr>
<td>JetSmart filters</td>
<td>Front-end</td>
<td>- Allows us to filter the CPT</td>
</tr>
</tbody>
</table>
Implementations - Automation

- Schedule time-based tasks
- WP-Cron
- Can switch taxonomies based on conditions
Process of Management

Select Custom Post Type
Click on the wordpress sidebar with different post types and click "Add new"

Wordpress will use these fields to populate a Custom Template
Custom templates that we made will be populated automatically with individual pages

Fill Out Custom Post Fields
Different Custom Posts will have different fields and Taxonomies
# Results

## Computational Tissue Engineering

**Faculty**

**Doris Zallen**  
Professor of Science and Technology in Society  
School of Science and Technology

Zallen studies the social, ethical, and policy issues arising from advances in genetic and reproductive technologies, including the ethics of policy-making and ongoing ethical questions.

**Faculty Spotlight**

**Scott Verbrugge**  
Assistant Professor of Biomedical Engineering and Sciences  
School of Science and Technology

Dr. Verbrugge is primarily interested in cell-to-tissue interactions that occur during tumor progression and therapy response. He is broadly interested in leveraging 3D engineered models...
Milestones/Timeline

**February**
- Initial Research
  - Research into what type of CMS to use, and finally ended with Wordpress

**March**
- Wordpress Familiarity/Plugins
  - Acquirement of different plugins such as Jetpack, Elementor, WP-Crontrol

**April**
- Creation of Custom Post Types/Taxonomy
  - Created Templates of Custom Posts and their fields for ease of access

**Current**
- Population of Data/Polishing Site
  - Filled in data for the Posts and polished the overall site.
Challenges/Future Work

- **Challenges**
  - Simple tasks in Elementor were not always straightforward
  - Learning how to add/edit pages
  - Creating a select filter led to slight glitches

- **Future work**
  - Export website into VT Wordpress environment
  - Acquire VT domain name and finalize hosting
## Acknowledgements

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[Image of Dr. Murali]

[Image of Dr. Edward Fox]
References

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