# Team Sddec24-14: Website Migration Project

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https://sddec24-14.sd.ece.iastate.edu/

Advisor: Professor Judith Islam

Client: John Stuifbergen, Buildertrend

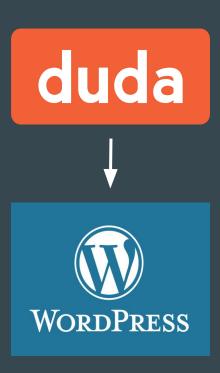
#### **Client: Buildertrend**

- Constructs and host sites
  - Home builders
  - Remodelers
  - Specialty Contractors
- Ended Partnership with Duda
  - Clients satisfied with Duda sites
- Switched to WordPress



#### **Problem Statement**

- Migrate existing Duda sites to WordPress
- Maintain or improve on quality
- Simplistic design structure
  - Inexperienced users
  - Easier to update
  - Maintainable



#### **Project Overview**

- Migrate sites
- Reference original site
- Similar site structure
- Tools: WordPress, Elementor & Flywheel
- Satisfy needs of the personas



#### Personas

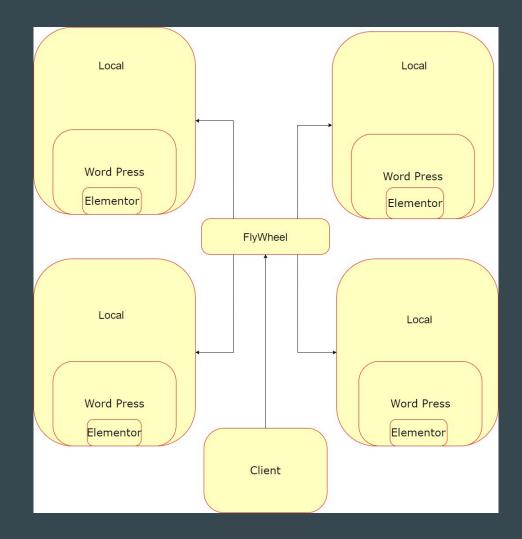
- Persona 1: Buildertrend
- Goal: Give client a quality website

- Persona 2: Site owner
- Goal: Connect services to users

- Persona 3: Users
- Goal: Get information



# **Conceptual Sketch**



#### **Functional Requirements**

- Content Migration
  - Transfer all contents
- Design Replication
  - Replicate Layout of Duda
- Feature Parity
  - Recreate all Features
- Responsive Design



### **Non-functional Requirements**

- Maintainability
- Scalability
- Usability
- Availability
- Consistency



#### Technical/Other Constraints/Considerations

- **Data Migration Challenges** 
  - Lack of Auto Migrator
- **Customization Complexity** 
  - Complex Features to Replicate
- Time and Deadlines
  - Start to Deployment
- Stakeholders Expectations
  - Communicate with Client



#### Market Survey/Research

- Advantages:
  - Structured approach
  - Offer security & analytics
  - Have specific tools/services
- Disadvantages
  - Cost
  - Needs access to resources
  - Different restrictions for each service
  - Varying complexity



#### **Potential Risks - Security**

- Harmful plugins
  - Some have malware
  - Older versions are more vulnerable
- Solution:
  - Frequently update plugins
  - Don't download old plugins
  - Use popular plugins



# **Potential Risks - Complexity**

- Complex design and elements
  - Hinder site performance
  - Inexperienced users
  - Difficult to update/change
- Solution
  - Aim for simplicity
  - Use original site as guide
  - Keep the users in mind



#### **Project Milestones & Schedule**

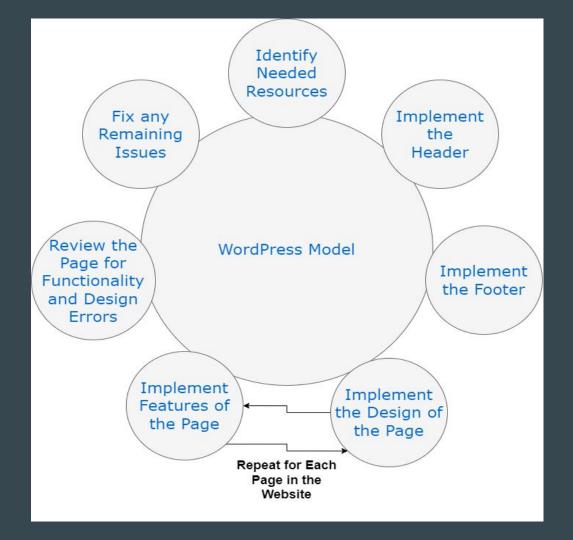
- Project Initiation (Week 1 -2)
- Requirements Gathering (Week 3 -4)
- Planning and Strategy (Week 5 -6)
- Design and Theme Development (Week 7 -10)
- Development and Integration (Week 11 -14)
- Testing and Quality (Week 15 -16)
- Deployment and Go-Live (Week 19 -20)
- Post-Launch Monitoring/Optimization

### **Functional Decomposition**

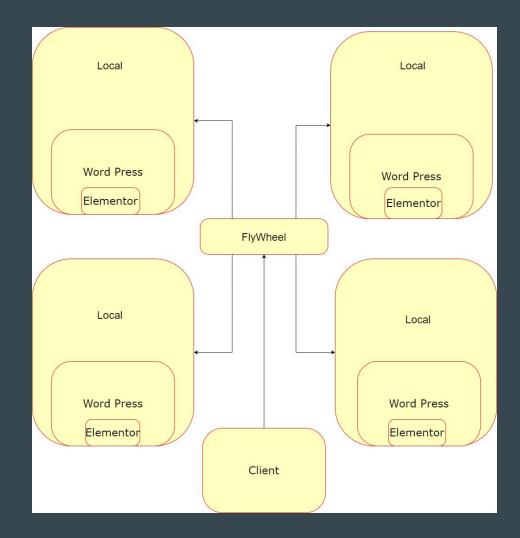
- Content Migration
- Design Replication
- Feature Implementation
- Responsive Design
- Performance Optimization



## **Detailed Design**



# **Detailed Design**



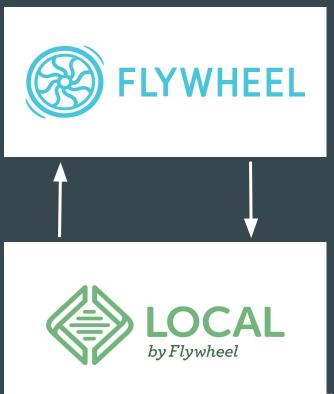
#### **SW Technology Platforms Used - Elementor**

- Drag & Drop Plugin
- Easy Modifications
- Responsive Design
- Learning curve



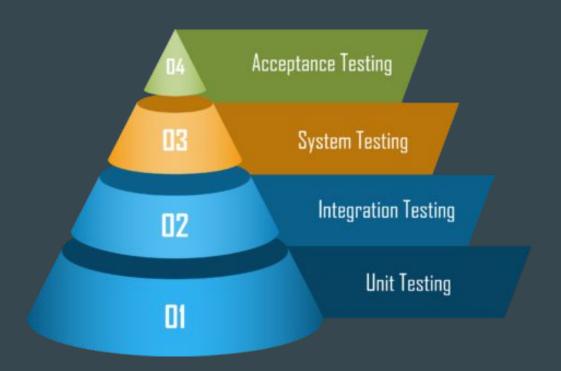
### SW Technology Platforms Used - Flywheel & Local

- WordPress Hosting Provider
- Security
- Scalability
- Easy Site Management
- Merging issues



### Test Principles

- Manual
- Unit Testing
- Functional testing
- Integration Testing
- Acceptance Testing
- Regression Testing



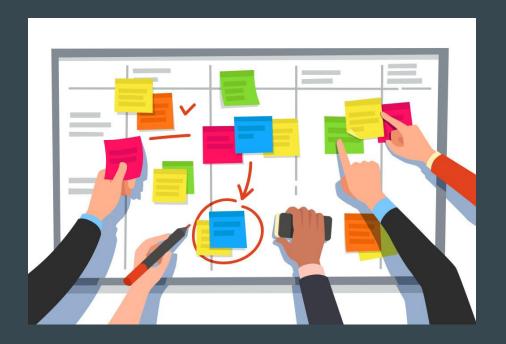
#### **Current Project Status**

- Extensive familiarity with the process of utilizing the given tools to replicate a website.
- Completed or working on the following websites:
  - **Aune Brothers Construction**
  - JCLC Homes
  - Britestreet
  - Cherry Building Group
  - Bigger Staff Co
- Script to convert Duda Collections into SQL Statements for defining a table and inserting data.
- Wordpress theme templates for different aspects of the website i.e Header, Footer, Post, etc.



#### Task Responsibility/Contributions

- Piper Ideker
  - Fully finished Aune Brothers Construction website
  - Started work on Bigger Staff Co website
- Danh Hoang
  - Worked on Brittestreet website
  - Created general templates
- Chiran Subedi
  - Manually migrating JCLCHomes
  - Creating templates for themes
  - Script for converting Duda Collections to mySQL
- **Bryant David** 
  - Cherry Building Group
  - Applied Themes/Plugins



#### Plan for Next Semester

- Unfortunately we recently
  discovered that this project ends in
  June of this year and it won't
  continue next semester.
- We talked to Professor Shannon and Fila about this issue, and they said that we would have to join a different group and join a continuing project.

# QUESTIONS?