Family Literacy Centers

Proposal

Design

Aubrey Jones Barnes
Ryan Murray

Development

Candace Cantrell
Krystal Mitchell
Maurina Davis

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1.0 Client

Family Literacy Center

Deanna Weierholt M.Ed.

Family Literacy Algebra I course is designed to be the main source of instruction for a traditional beginning algebra course, or it can be used as a supplement to any exiting program. Topic and objectives can be easily located to correspond to other textbooks and teaching methods.

These materials also help with overcoming student motivation problems as well as understanding learning problems. It encourages a sharing of the responsibility of learning between student and teacher, even though these effect may take longer for some students than for others.

2.0 Statement of Need

The mathematics software for e-learning needs to be updated. The current site uses flash and only really works on some browsers. The site needs to meet the needs of children learning Algebra. The applications need to be interactive. Teachers/Parents need to be able to access the progress of their students and see what concepts they might be struggling with.

3.0 Client Goals

- Preform well on multiple browsers
- User friendly, secure login system.
- Database to store the individual user password and progress.
- Create an interactive experience with the math exercises.
- Interactive quizzes
- Student progress tracking system
- Page for teachers/parents to view their students progress.

4.0 Proposed Solution

We will be updating the Family Literacy Center's Algebra 1 presentation with a better user interface. This interface will include a login and progressively tracking students progress. We will design a platform to increase productivity and understand of Algebra 1.

5.0 Deliverables

- Proposal
- Personas
- Journey map
- Prototype
- Design Document
- Results from user testing
- Final Product

6.0 Success Metrics

With the improvements to the website, we hope to be able to see increase in:

- New students
- Completion of the Program
- Website traffic
- Improved customer experiences

7.0 Audience | Stakeholders

Middle and High School
Ages 13 - 18

Home school

Educators

Deanna Weierholt M.Ed. - Reading Director

She has a bachelor's degree in Community Health Education from Brigham Young University. She is a member of the American Board of Certified Teachers. She created and implemented a training program for tutors and directors for the literacy program for Family Literacy Center. She has a master's degree from the University of Utah in Instructional Design and Educational Technology.

Dr. Edward E. Green - General Manager

8.0 Requirements

8.1 Content

- Secure user login
- Navigation
- Math modules
- Interactive quizzes
- Images
- Progress record

8.2 Functional

- Secure login and tracking of students progress.
- Navigation page for the different units with lessons and practices.
- Interactive quizzes to check students mastery of concepts.

8.3 Product Qualities

Efficiency - the website upgrade will provide access to students on all browsers for desktop and tablet devices.

Subscription - the website upgrade will provide fun, interactive, and safe environment for students to learn Algebra 1 skills.

Learn - user login to engage students in a personal

8.4 Constraints

Style guide provided by Family Literacy Center
Website works on all browsers
Meet all deadlines for product reviews and sign-offs

9.0 Development Process

9.1 Phases

Project Initiation	Pre-Production	Production	Post-Production
Digital Media Team Attend kick-off meeting Research competition Research target audience	**Digital Media Team** Design strategies Usability testing	**Digital Media Team** Code website Create quizzes Create database	**Digital Media Team** Test website Quality assurance Find and fix any bugs Deliver final website
Family Literacy Center Attend kick-off meeting Provide information on project, goals, and expectations. Provide website content	**Family Literacy Center** Review design brief Approval of Prototype	**Family Literacy Center** Provide content Provide feedback	**Family Literacy Center** Provide feedback Sign-off on project

9.0 Development Process

9.2 Development Tools

Document Creation
- InDesign
- Illustrator
- Microsoft Word
- Google Docs

Wirefames/Prototypes
- Illustrator
- Photoshop
- Sketch
- Invision

Development:
- Visual Code Studio
- WordPress

9.3 Development Team

Aubrey Jones Barnes
UX Designer/Product Manger

Candace Cantrell
Web Developer

Krystal Mitchell
Web Developer

Maurina Davis
Web Developer/Project Manager

Ryan Murray
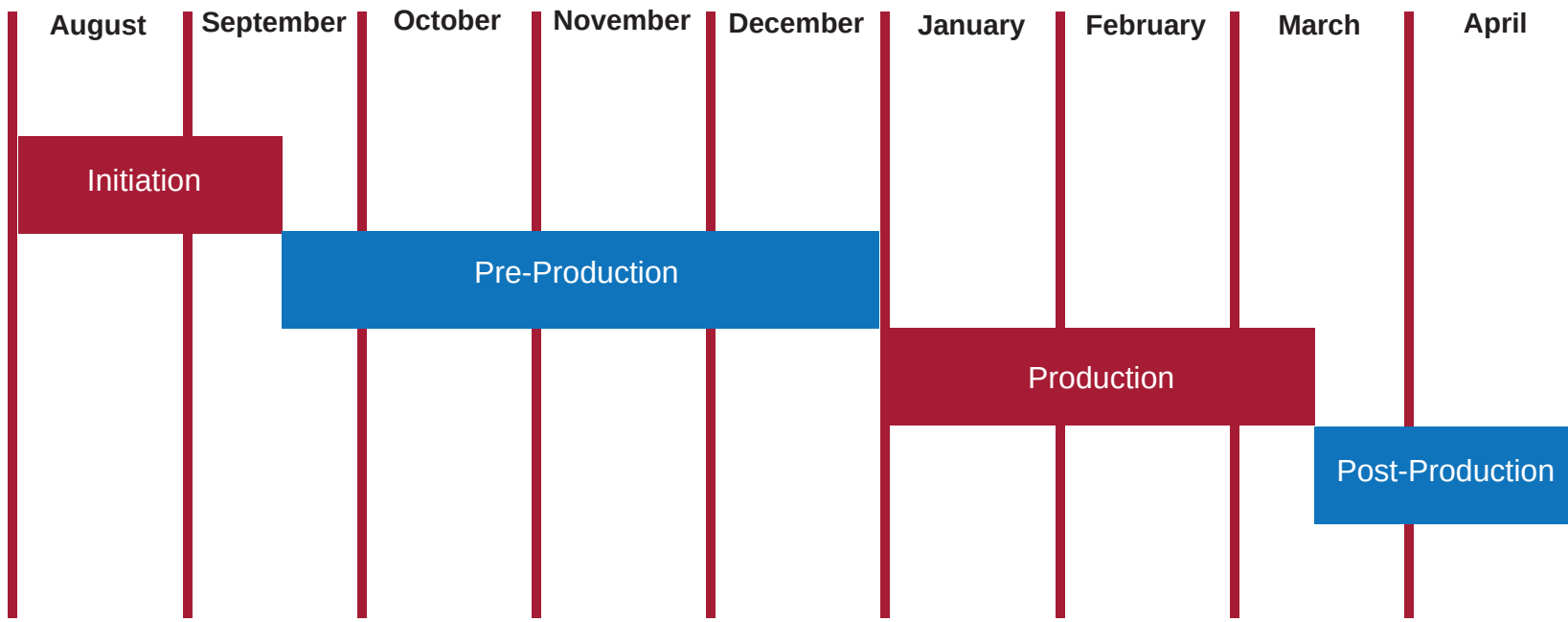UX Designer

9.0 Development Process

9.4 Quality Control

To ensure the success of the project, our team will conduct usability testing throughout the design and development process and make improvement according to the results of the testing. We will conduct a usability test with 5-6 demographic users for the final project and have them complete a user satisfaction survey.

To insure that the needs of our client are being met, our team will have the clients approval of wireframes, prototypes, and other aspects of the project as necessary.

At the conclusion of this project our client will complete a user satisfaction questionnaire for the Digital Media Department. This questionnaire will rate the quality of service preformed by the project team, which will be sent directly to Professor Hatch.

10.0 Timeframe

August	September	October	November	December	January	February	March	April

Initiation (August – September)

Pre-Production (September – December)

Production (January – March)

Post-Production (March – April)

11.0 Project Scope

This scope of this project is described in terms of factors that influence cost. Our estimate and time frame are based on the following assumptions. If the scope of the project is changed for any reason, the time frame and cost will need to be adjusted.

Website Redesign	Our team will create a login process for current and new students. A tracking system for student progress. Create
Website Build	Create a database to store and retrieve individual student information. Implement the new designs on the site. Create
Client Reviews & Revisions	The client may request revisions of current designs during the wireframe and prototype processes. Significant revisions after
Testing	Usability testing of 5-6 users of the prototype will be conducted. Results will be provided to the client. Usability testing of 5-6 users of the final website will be conducted. Results will be provided to the client. The client will complete a satisfaction survey between 6-10 question of the quality of work for the finish project and provide the results.

12.0 Cost Estimate

The labor required for the completion of this project is being donated to the Family Literacy Center. For informations purposes the Digital Media team would like to provide a general cost for a project of this scope so the Family Literacy Center is aware of the value received for allowing our team to work on this project. The average cost of this type of project would be between $22,400 - $28,000 assuming a rate of $20 - $25 an hour. A more detailed final budget and cost estimate will be included with the Design Document.

13.0 Proposal Sign-off

Team Signatures

Aubrey Jones Barnes   9/20/19

Aubrey Jones Barnes   Date
UX Designer, Product Manager

Candace Cantrell   9/15/19

Candace Cantrell   Date
Web Developer

Krystal Mitchell   9/20/19

Krystal Mitchell   Date
Web Developer

Maurina Davis   9/20/19

Maurina Davis   Date
Web Developer, Project Manager

Ryan Murray   9/20/2019

Ryan Murray   Date
UX Designer

Utah Valley University Approval

_____
Daniel Hatch   Date
DGM Professor, Advisor

_____
Thor Anderson   Date
DGM Professor, Mentor

Client Approval

Deanna Weierholt   9/20/2019

Deanna Weierholt M.Ed.   Date
Family Literacy Center