



ConverSwim

Interactive Accessibility Tool for Neurodiverse Dyads

An Ongoing Project of
Dr. Annuska Zolyomi's



First Working Prototype by Jaimi Chong

Introduction

ConverSwim, short for 'Conversation Swimlanes', is an interactive **visual tool for capturing** the highlights and lowlights of **conversation between neurodiverse** conversation partners and enabling **reflection** and improved **understanding** of each others' **perspectives**.

Requirements Analysis

Initial:

2.1.2.1. Summary of Priorities		
Priorities in <i>Must-haves</i>		
<ul style="list-style-type: none">Accessibility to both neurodivergent and neurotypical usersHelpfulness to conversationSupport for tablets, and as a touch-based application		
Priorities in <i>Should-haves</i>		
<ul style="list-style-type: none">Data exporting, as a temporary replacement for database managementQuality of life features for the conversation screen		
Priorities in <i>Could-haves</i>		
<ul style="list-style-type: none">Seamless user guidesDatabase and corresponding features and constraints for users to interact with server dataRESTful architectureEdge case features for the conversation screenSupport for computers, as a website, and in varied resolutions		
Priorities in <i>Won't-haves</i>		
<ul style="list-style-type: none">Database security for <i>HIPPA</i> complianceMachine learningFeedback and maintenance support linesSupport for smartphones, with varied panel arrangements		

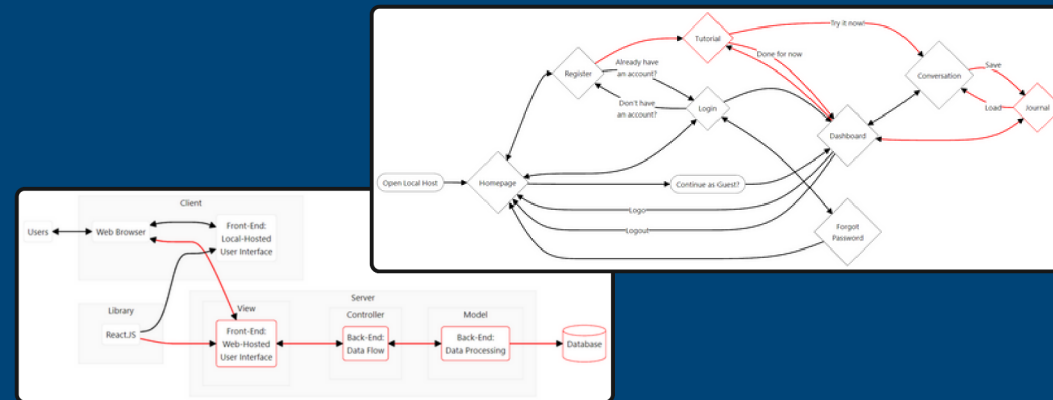
The project was **originally** planned to be a **tablet touch-screen** application, but later shifted to a **computer website** format.

Final:

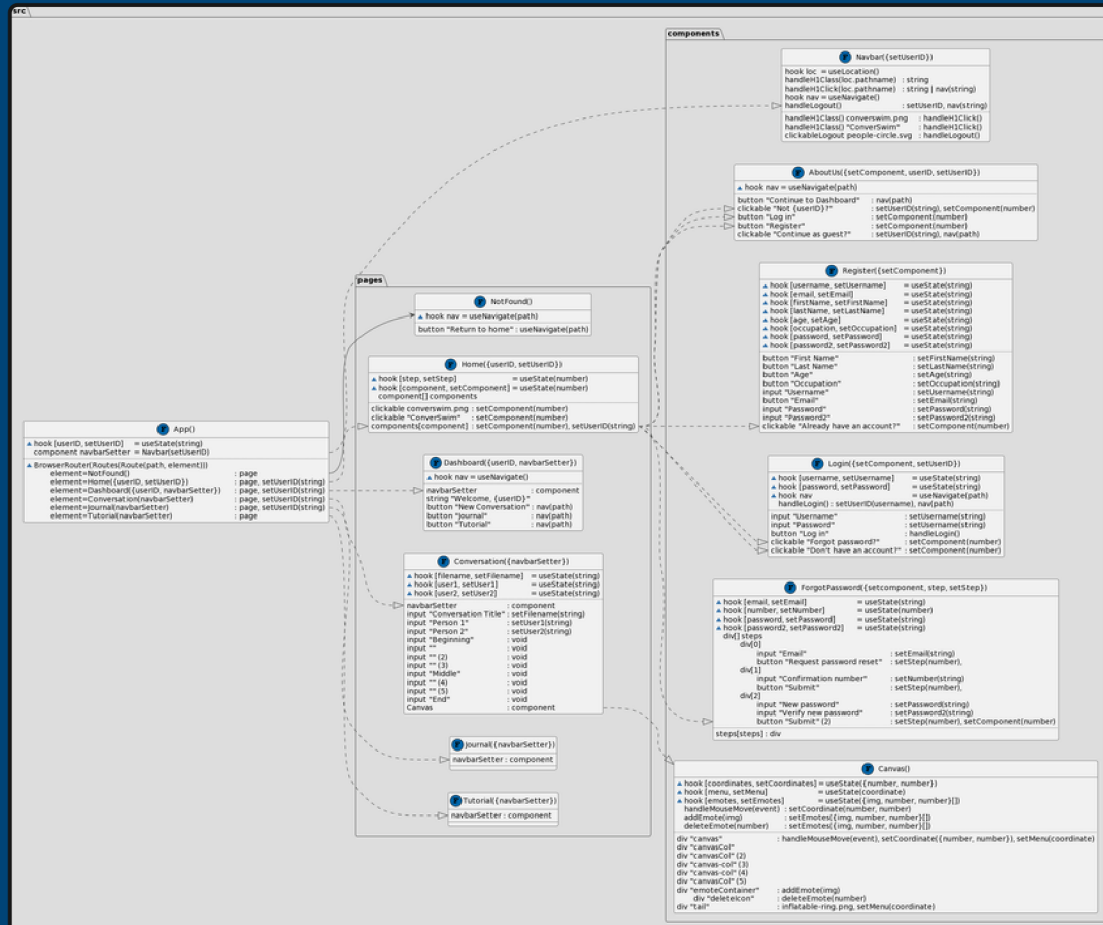
PACT Relation	Requirement	Type	MoSCoW Priority
PEOPLE	The software's conversation screen and its contents are accessible (i.e. intelligible, findable, learnable) to both neurodivergent and neurotypical users.	Non-functional	MUST-have
PEOPLE	The interface's menu layers are kept to a minimum	Functional	MUST-have
ACTIVITIES	The interface does not impede conversation	Non-functional	MUST-have
CONTEXTS, Process	The software does not distract users by requiring them to remember points mid-conversation	Non-functional	MUST-have
CONTEXTS, Process	The software emoticon selection can be used by one user at a time.	Functional	MUST-have
TECHNOLOGIES	The software performs as expected as a website	Non-functional	MUST-have
TECHNOLOGIES	The software performs as expected on computers	Non-functional	MUST-have
TECHNOLOGIES	The software supports mouse and keyboard inputs	Functional	MUST-have

Final Design Plans

System Architecture and User Flow Diagrams:



System Components (UML Diagram):



Implementation

