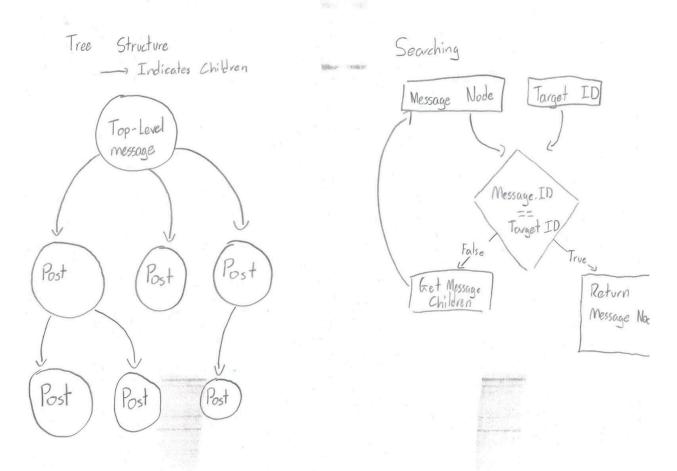
OI WIOCKups			
	UI	Mockup	- Post
Date Posted			
Link to Parent		Marie A. Kalaba	
Title Of	Post		
Post content			
8. II			
Children:			
Title, Date,	Content		
2nd Title January 1, 1900	Lorem Ipsu	m	
New Comment			
Title:			
Content-			

Page

Flow Charts

Flow Chart



```
Util
- messages: List<Message>
- tree: MessageTreeNode
+ dateToMilliseconds(int year, int month, int day): long
+ padId(long id): String
+ getId(String id): long
+ getDateTime(long id): String
+ loadMessages(): void
+ getMessages(): List<Message>
+ getMessage(String id): Message
+ saveMessage(Message message): Message
+ buildTree(): void
+ getTree(): MessageTreeNode
```

```
MessageTreeNode
- message: Message
- children: ArrayList<MessageTreeNode>
+ MessageTreeNode(Message message)
+ findMessageBFS(long id): MessageTreeNode
+ findMessageDFS(long id): MessageTreeNode
+ findMessageRecursive(long id, MessageTreeNode curMessage): MessageTreeNode
+ addNode(Message otherMessage): void
- addChild(MessageTreeNode child): void
+ getMessage(): Message
+ getChildren(): ArrayList<MessageTreeNode>
```

```
Message
# id: long
# parent: long
# title: String
# content: String
+ Message(long id, long parent, String title, String content)
+ Message()
+ qetMessage(): Message
+ qetId(): long
+ setId(long id): void
+ qetTitle(): String
+ setTitle(String title): void
+ qetContent(): String
+ setContent(String content): void
+ toCsv(String deliminator): String
+ getDate(): String
+ qetParent(): long
+ setParent(long parent): void
```

Test Number	Nature of Test	Method of testing and expected results	
Test 1	Messages can be posted back	When the user submits the message, it appears within the database	
Test 2	The Tree can be built	The method for building the tree runs without error	
Test 3	The Tree is searchable	Searching for an ID returns the child. Searching for an ID that does not exist returns null	
Test 4	Messages can be displayed	Items in the CSV can be seen on the HTML	
Test 5	HTML is navigable	Every aspect of the website can be visited solely by visiting hyperlinks	