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CSCI 4950

Dr. Wei

Senior Project Proposal

Kudos

The benefits of showing gratitude as well as being shown gratitude have been studied within the realm of Psychology for some time, it has been shown that a simple act of gratitude can be beneficial to one’s health, either as the individual giving gratitude or receiving gratitude. As such, I propose to create a program that allows for an individual to show gratitude to another by allowing users to purchase gift-items for one another. For example, say you have received exemplary customer service and would like to express that you are thankful to the employee for their services. You could provide them with your phone number, if it is not already known to them. Allowing them to select a small gift item, whereupon once you, the giver has approved, the program would send them a digital voucher of sorts, that would be redeemable for a gift-item.

Gift items would be registered per company, with organizations opting into the service. Users would be registered by a user name as well as an associated password. The password is to be hashed before it is stored, with that hash being checked against upon a user logging in. As an additional security measure payment information associated with the Giver would not be stored permanently at any point but instead requested with each transaction and being removed when the transaction is complete.

Implementation will involve first eliciting additional requirements from my client, designing and constructing the associated database and then constructing and refining the program. I intend to use a combination of Java, & SQL to accomplish this, following a MVC design. I will be using Eclipse, XAMP, & MySQL Workbench to design a JavaFX GUI that will allow for any user to register, log in, give another individual a gift, and/or be notified when they are given a gift, as well as the ability to redeem the gifts they have been given and to approve the gifts they are giving.

Due to constraints the organizations, payment information, user-phone numbers and gift items will be fictional for the time being, with the program maintaining a design that will allow for these items to be replaced and added to with real-world data in the future. The only technology required by the end-user should be any device that can connect online, has a display, a mouse, a keyboard & can run Java. My expected outcome is a fully functioning, secure, runnable program that interacts with an online database allowing for multiple, simultaneous users.

* Project Title: Kudos
* Implementation Plan:

• Elicit further requirements from Client: Simon Singh  
• MVC Design (Eclipse, XML, Java)  
• Database Design & Creation. (XAMP, MySQL Workbench)  
• Loose SCRUM Methodology (Design, Create, Present, Refine, Repeat)

* Technology Needed: Any device with a connection to the internet, a screen, a keyboard, a mouse, and the ability to run Java 8.
* Expected Outcome: A Program that is: Functional, Secure, Allows for Multiple & Simultaneous Users, & Satisfies the Clients Requirements.

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Links:   
• <https://www.psychologytoday.com/blog/the-mindful-self-express/201511/how-gratitude-leads-happier-life>  
• <http://www.midus.wisc.edu/findings/pdfs/1582.pdf>  
• <http://ei.yale.edu/wp-content/uploads/2013/11/jclp22020.pdf>   
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Project GitHub: <https://github.com/adadki4103/Senior-Project>