

BUSINESS CASE WorkFlow	
Proposed Project	Our goal is to design and implement a Software for Workforce Scheduling.
Date Produced	September 20, 2023
Background	<p>Background Information:</p> <p>Employers have a big responsibility to manage employees' schedules in order to fulfill all roles. Schedules constantly change, making it difficult to keep everyone updated in real-time. By using workforce scheduling software, employers no longer need to manually schedule every task and employees can manage their own schedules more efficiently.</p>
Business Need/ Opportunity	<p>Business Need:</p> <p>Our advanced technology eliminates outdated scheduling methods that involve pen and paper by providing scheduling software, time clocking, and communication software. This web-based solution eliminates the need for back-office paper schedules, sticky notes, and lost email threads. Employers can update shifts and schedules from anywhere, at any time. Our software enables employers to stay connected with their employees in a contactless manner. With its user-friendly interface, employers and employees can easily communicate and remain accountable, allowing the company to focus on achieving success. The software offers a range of features including availability management, task assignment, and time-off requests, all accessible from a computer. With our product, managers can enhance productivity and employees can feel empowered.</p> <p>Market:</p> <p>There are similar products being released in the market, but unfortunately, most of them are not free. Our product's purpose is for educational use, and we plan on offering it to users for free. We hope that this will benefit thousands of employers who can take advantage of it.</p>
Options	<p>Outline implementation plan:</p> <p>Classical Waterfall Model:</p> <ul style="list-style-type: none"> ● Understand the exact requirements of the customer ● Transform requirements into a software design ● Translate software design into source code ● System testing is performed ● Pros: is very rigid, stable and safe to use, is quick to complete ● Cons: feedback is not applied to each phase after completion, all customer requests are complete and cannot be changed, software testing occurs very late into production

Scrum Model:

- The Scrum Project is broken down into smaller chunks of work that are developed and delivered incrementally. The key aspect of the Scrum model is the sprint, which is a development time-box. Each Sprint involves selecting a subset of product backlog items for a specific sprint. Stakeholders and project team members hold a Scrum meeting to evaluate progress after the sprint. Feedback is obtained from the Scrum to implement necessary changes or add new functionality.
- Pros: Scrum offers flexibility, prioritizes customer needs, promotes transparency and open communication, delivers value sooner, encourages collaboration, and promotes continuous improvement.
- cons: Scrum may not work for all projects, especially those with clear requirements or strict processes. Success relies on the team's skills and dedication, and insufficient documentation can be a problem in regulated industries. It's hard to predict when features or the project will be completed due to Scrum's dynamic nature.

	Tasks
	<p>Research market</p> <p>Group meeting for decision making (Naming, Logo)</p> <p>Making business case and cost estimates forms and gantt chart</p> <p>----- Requirements Gathering and Planing-----</p> <p>Making Feedback Notes</p> <p>Gathering Ideas of design constraints and priority requirement</p> <p>develop detail project schedule unit by unit</p> <p>Build first lo-fi prototype</p> <p>----- Software Development -----</p> <p>Making feedback Notes</p> <p>building units</p> <p>Build hi-fi prototype based on units</p> <p>----- Deployment -----</p> <p>Making feedback Notes</p> <p>edit hi-fi prototype</p> <p>Implementation (html,css,js)</p> <p>Group meeting for testing the prototype</p> <p>finalize the prototype -> model</p> <p>final testing on model</p> <p>-----Implementation Review -----</p> <p>improve and implement software</p>

Cost-Benefit Analysis

Classical Waterfall Model

Benefits:

- Once each phase is completed, it is closed for any rework. This makes moving onto the next phases very efficient.
- Customer requests are completed at the beginning of the project, which makes the software easier to develop, as there are no additional requirements added.
- Software is completed relatively quickly

Costs:

- Customer feedback for each phase is not applied

- It is difficult to accommodate change requests from the customer
- Software is tested very late, when it is harder to fix the problems

Scrum Model

Benefits

- Scrum model is very flexible and open to changes
- Prioritizes customers needs
- Feedback given by customer is applied to each sprint

Costs

- We have limited time to complete the project, and the scrum model can take longer than expected
- Requirements may change frequently, making it difficult to meet
- changes during sprints are not allowed

COST ESTIMATES						
Project Name		WorkFlow				
HR Cost Estimates						
Activity	Duration (days)	Resource	% Allocate	Work (days)	Daily Rate	Cost
Research Market	2.0	Human Resource (our group)		3.0		\$0.00
Design Layout	3.0	Human Resource (our group)		10.0		\$0.00
Build Prototype(Lo-fi&Hi-fi)	5.0	Human Resource (our group)		5.0		\$0.00
Getting Customer Feedback	7.0	Human Resource (our group)		7.0		\$0.00
Reasearch Opensoruces	5.0	Human Resource (our group)		5.0		\$0.00
Build Model and Test	10.0	Human Resource (our group)		10.0		\$0.00
Total HR Cost Estimates						\$0.00
Other Cost Estimates						
Item	Quantity	Description			Unit Cost	Cost
Domain host fee	1.0				\$30.00	\$30.00
Copyright fee of images	1.0				\$50.00	\$50.00
						\$0.00
						\$0.00
						\$0.00
						\$0.00
Total Other Cost Estimates						\$80.00

Recommendation

The recommended option is the Scrum Model because it offers more flexibility and prioritizes the customers needs. The feedback given by the customer will be implemented in each activity.