

MICHIGAN STATE

UNIVERSITY

Beta Presentation

Smart Auto-Time Logging

The Capstone Experience

Team Vectorform

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Fall 2021



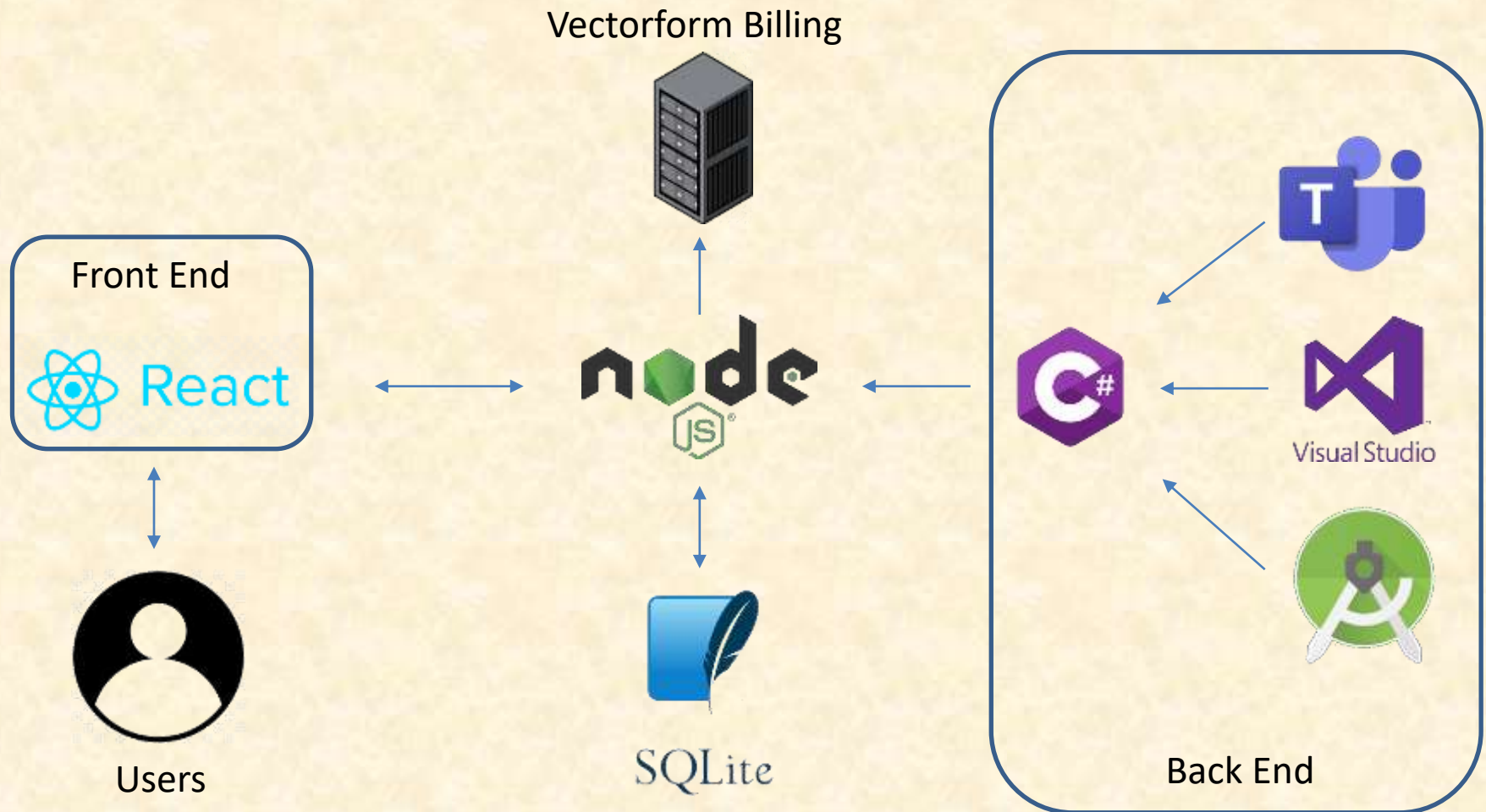
*From Students...
...to Professionals*

Project Overview

- Optimize project billing process for Vectorform employees
- Automatically track time spent working on billable projects
- System learns over time which project code to assign to time statements
- User can view time statements for confirmation through web portal



System Architecture



Screen Shot: User Portal

The screenshot displays a web browser window with the address bar showing a local file path. The main content area features a date navigation bar with '11/08/2021' and 'TODAY' buttons, and a 'CONFIRM ENTRIES FOR DAY' button. Below this is a table with the following data:

Project Code	Start Time	End Time	Tracking Module	Actions
	9:57 pm	9:58 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:05 pm	10:05 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:06 pm	10:06 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:06 pm	10:06 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:07 pm	10:07 pm	Mozilla Firefox	[edit] [stop] [confirm]

Below the table, there are input fields for 'Project Code', two time selection fields with 'x' icons, and a dropdown menu. At the bottom right, there are refresh and refresh with filter icons.



Screen Shot: Date Selector












The screenshot shows a web browser window displaying a user portal. A date selector calendar for November 2021 is open, centered over a table. The table has columns for Project Code, Start Time, End Time, Tracking Module, and Actions. The calendar shows the date 10th of November is selected. Below the table, there are input fields for Project Code and Start/End Time, and a dropdown menu for Tracking Module.



Project Code	Start Time	End Time	Tracking Module	Actions
	9:57 pm	9:58 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:05 pm	10:05 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:06 pm	10:06 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:06 pm	10:06 pm	Mozilla Firefox	[edit] [stop] [confirm]
	10:07 pm	10:07 pm	Mozilla Firefox	[edit] [stop] [confirm]





















Screen Shot: New Entry



< 11/08/2021 > TODAY CONFIRM ENTRES FOR DAY

Project Code	Start Time	End Time	Tracking Module	Actions
	9:57 pm	9:58 pm	Mozilla Firefox	  
	10:05 pm	10:05 pm	Mozilla Firefox	  
	10:06 pm	10:06 pm	Mozilla Firefox	  
	10:06 pm	10:06 pm	Mozilla Firefox	  
	10:07 pm	10:07 pm	Mozilla Firefox	  

project 27 11:00 PM ✓ 11:55 PM ✓ Visual Studio Code  

< 11/08/2021 > TODAY CONFIRM ENTRES FOR DAY

Project Code	Start Time	End Time	Tracking Module	Actions
	9:57 pm	9:58 pm	Mozilla Firefox	  
	10:05 pm	10:05 pm	Mozilla Firefox	  
	10:06 pm	10:06 pm	Mozilla Firefox	  
	10:06 pm	10:06 pm	Mozilla Firefox	  
	10:07 pm	10:07 pm	Mozilla Firefox	  
project 27	11:30 pm	11:55 pm	Visual Studio Code	  

Project Code 11:00 PM X 11:55 PM X  



Screen Shot: Confirm

< 11/09/2021 > TODAY CONFIRM ENTRIES FOR DAY

Project Code	Start Time	End Time	Tracking Module	Actions
	9:57 pm	9:58 pm	Mozilla Firefox	
	10:05 pm	10:05 pm	Mozilla Firefox	
	10:06 pm	10:06 pm	Mozilla Firefox	
	10:06 pm	10:06 pm	Mozilla Firefox	
	10:07 pm	10:07 pm	Mozilla Firefox	
project 27	11:30 pm	11:55 pm	Visual Studio Code	

Project Code: Time: X Time: X

< 11/09/2021 > TODAY CONFIRM ENTRIES FOR DAY

Project Code	Start Time	End Time	Tracking Module	Actions
	9:57 pm	9:58 pm	Mozilla Firefox	
	10:05 pm	10:05 pm	Mozilla Firefox	
	10:05 pm	10:06 pm	Mozilla Firefox	Confirmed
	10:06 pm	10:06 pm	Mozilla Firefox	Confirmed
	10:07 pm	10:07 pm	Mozilla Firefox	
project 27	11:30 pm	11:55 pm	Visual Studio Code	Confirmed

Project Code: Time: X Time: X



What's left to do?

- Stretch Goals
 - JSON Output for Vectorform Server Ingestion
- Other Tasks
 - Meta Data for Research Applications
 - Endurance Testing
 - Screensharing Teams Bug



Questions?

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