# PEOPLE TRACKING SYSTEM

A Project created by Sterling Michel

### Overview

online contacting system is a unique online contacting system that enable a person to store and plot their contacts in a map. It allows the user the opportunity to search, share contact and understand where in the world are their friends and family located.

### Cool Features

- Contact Search
  - User will have the ability to perform search.
- Contact Map Display
  - o User Will see their contact plotted on the map.
- Contact Sharing
  - o User will have ability to share the information as a contact file.
- Contact Rating
  - User will have the chance to rate their contact flag it as family, business or friend.

## Design Challenges

- Integrating with Google OAuth
- Integrating with Google Map limitation
- Using plugin to help generate contact information
- Choosing proper REST API backend programming language
- Integrating with Google Gmail API

## TECHNOLOGY

### PROJECT MANAGEMENT

**GITHUB** 

**VS** Code

JIRA

Html/css

Jquery

Jquery-ui Javascript

### FRONTEND

### BACKEND

Nodejs MeteorJs mongodb



### TECHNOLOGY - UTILITIES

### HTML/CSS/Javascript

### Advantage

- Lightweight
- Easy to edit
- · Improved semantics
- · Compatibility Across Devices
- Better User Experience
- Faster Page Speed

### Disadvantage

- Browser Compatibility
- Lack of Security
- Performance Impact
- Overriding Styles
- Maintenance Challenges.
- · Limited Layout Control.

### Jauery

### Advantage

- Cross-Browser Compatibility
- DOM Manipulation
- Ease of use
- · Simplified Syn tax

### Disadvantage

- Abstraction Layer
- ES6+ Features
- Can hinder your understanding

### Jquery-U

### Advantage

- Integration
- · Maintenance friendly
- Them e mechanism
- · Browser support
- Documentation
   Plugins
- · Flexible styling and themes

### Disadvantage

- · Can be a bit confusing
- Lot of the DOMCSS manipulation

### Githul

### Advantage

- · Easy to use and learn
- · Impressive web client
- End-to-End secure over ssh or https
- · opensource and or pay account
- Simple CLI

### Disadvantage

- · Require some advance knowledge
- · Pay account is higher than competitor

### Jira

### Advantage

- · Multi users with collaboration, level access and information sharing
- · Easy to document project and coordinate tasks
- · Lots of reporting features with real-time communication
- · Customizable and has plugin integration

### Disadvantage

- · Cost a bit high to purchase
- . To many functions, could get lost

### VS Code

### Advantage

- · Versatility to use with such as editing and viewing markdown files
- Speed with lightweight editor that starts as a basic text editor, making it faster and more responsive
- Cost-effective for freelance developers and smaller teams
- Easy Plugin Extension with including IntelliSense, debugging, Git integration, and a highly customizable interface
- Development operations with development operations like debugging, task running, and version control.

### Python Flask With Async

### Advantage

- Non-blocking I/O
- Fast Execution
- Large Ecosystem with active Community
- Caching
- Cross-Platform
- · Fast Development

### Disadvantage

- Not I deal for CPU-Intensive Tasks
- Unstable API
   Security Risks
- Asynchronous Programming Model

### Swag ger Framework

### Advantage

- Real-time applications
- Extensive documentation
- · Integrates with front-end frameworks
- Supportive community
   Easy to learn

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- Disadvantage
  Pre-built packages
- Mobile web-apps

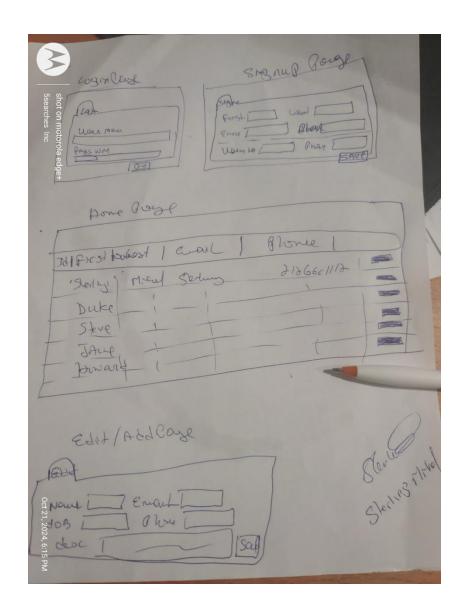
### MongDE

### Advantage

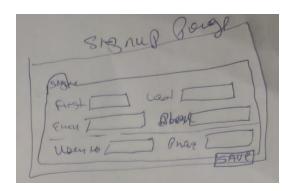
- Cloud-based
- Flexibility
- Spæd
- Cost-effective
   Scalability

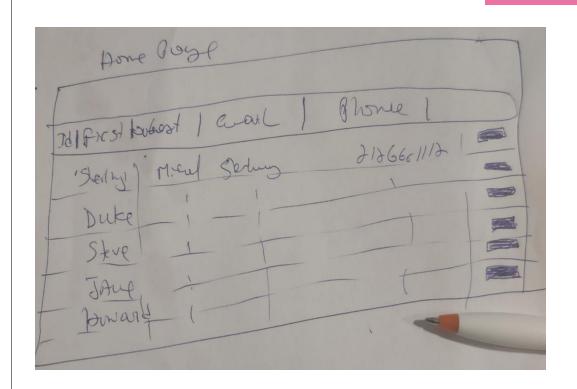
### Disadvantage

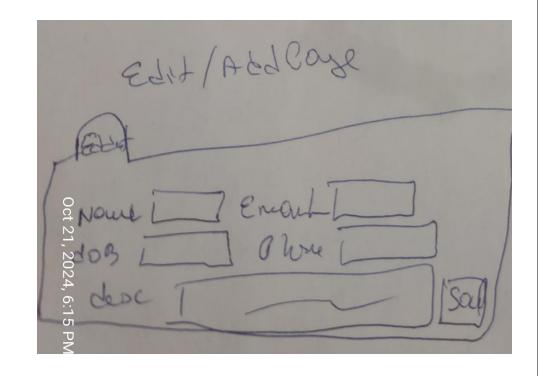
- Data redundancy
- Memory usage
- No transactions
- · Not recommended for relational data











## TECHNOLOGY – UI DESIGN

## Testing

- Testing framework (Nodejs), using Mocha For frontend, (Python) using PyTestSuite for backend
- Testing create into database
- Testing delete into database
- Testing Plotting location into UI webpage
- Testing rest api endpoint

## DOCUMENTATION



- Documentation created using Swagger API and manual entry
- Important code sections given in-line comments to describe functionality

# PROJECT PRESENTATION