

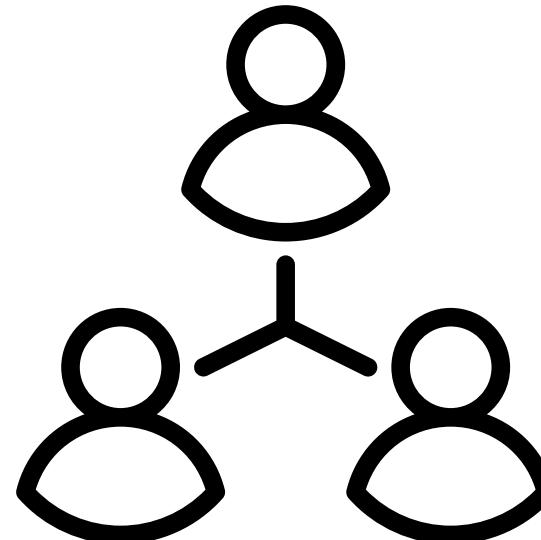
Processes of Object-Oriented Software Development - Spring 2026

Personal Contact Manager

Web Application

presentation

Team Members



Name	Description
Tales Souza Dias	Worked on some of the Contacts API endpoints and API documentation
Jashua Sauri Colon	Frontend Work on JS and HTML
Giovana Medeiros Castro	Worked on the database and created the ERD and Gantt Chart for the project.
Luiz S Dias Gomes	Project Manager
Maria Colmenares	Worked on the backend creating some of the methods for the API implementation
Joseph Ervin	Worked on the Contacts API endpoints and error handling

Technology used



Frontend

- HTML - Login, Register, Contact pages
- CSS - Custom layout + Tailwind CDN
- JavaScript - Client-side logic + jQuery

Backend

- PHP
- Slim framework

Database

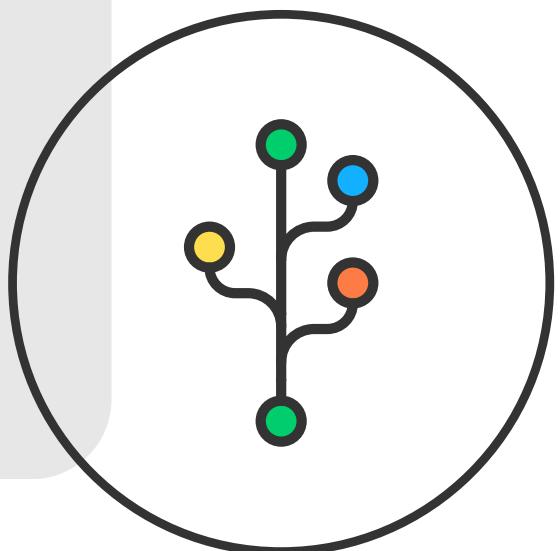
- SQLite - Development and API testing
- MySQL Workbench - Database modeling and ERD design
- Relational schema with Users and Contacts tables

Development Tools

- Composer
- GitHub - Version control and collaboration
- Discord - Communication

Project Successes

- Completed a working full-stack application.
- Successfully integrated frontend, backend, and database.
- Adapted to team changes and delivered on time.
- Team contributions on GitHub, with all changes merged only after review and approval.



Languages

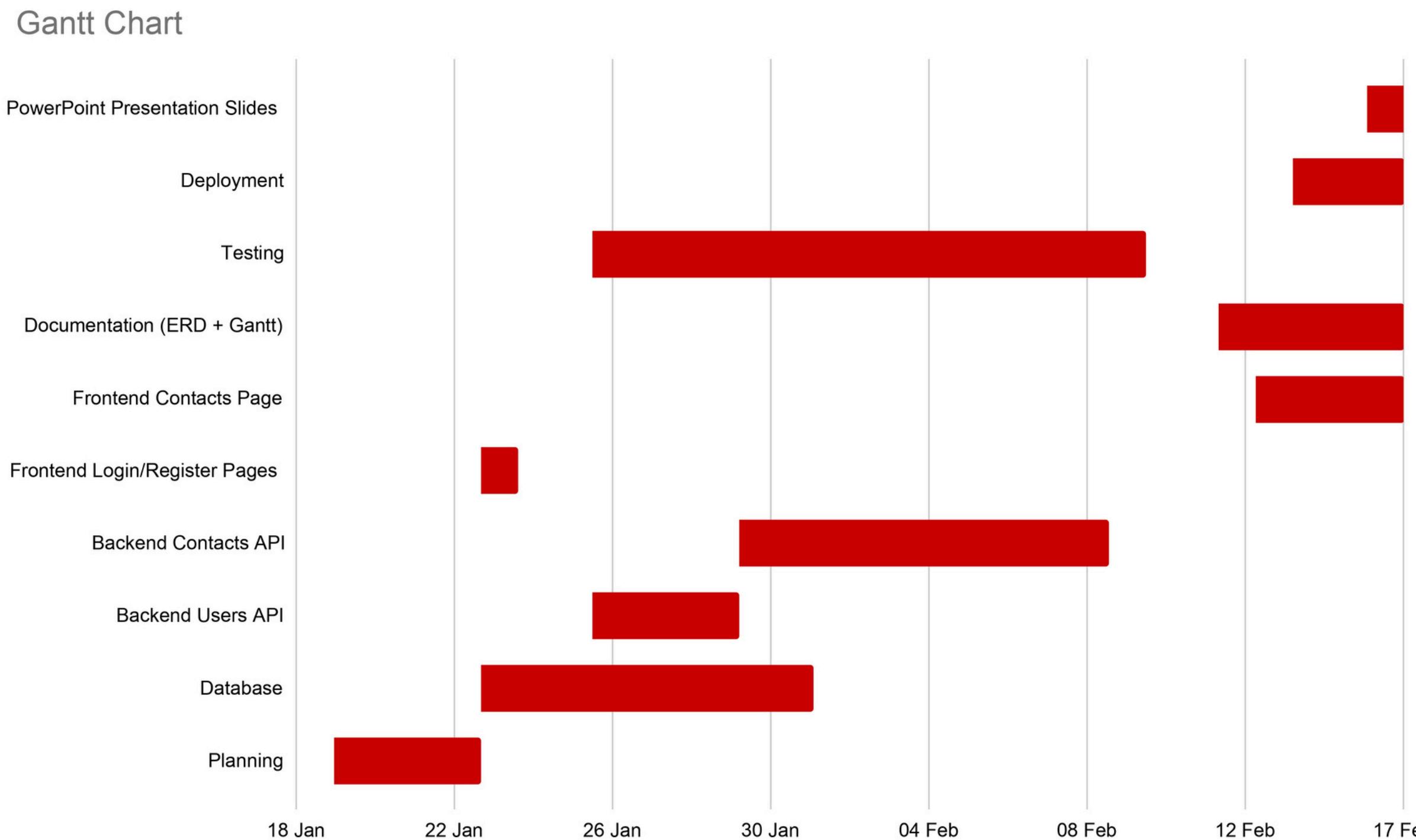


- PHP 55.0%
- JavaScript 27.9%
- CSS 9.2%
- HTML 7.9%

Project Challenges

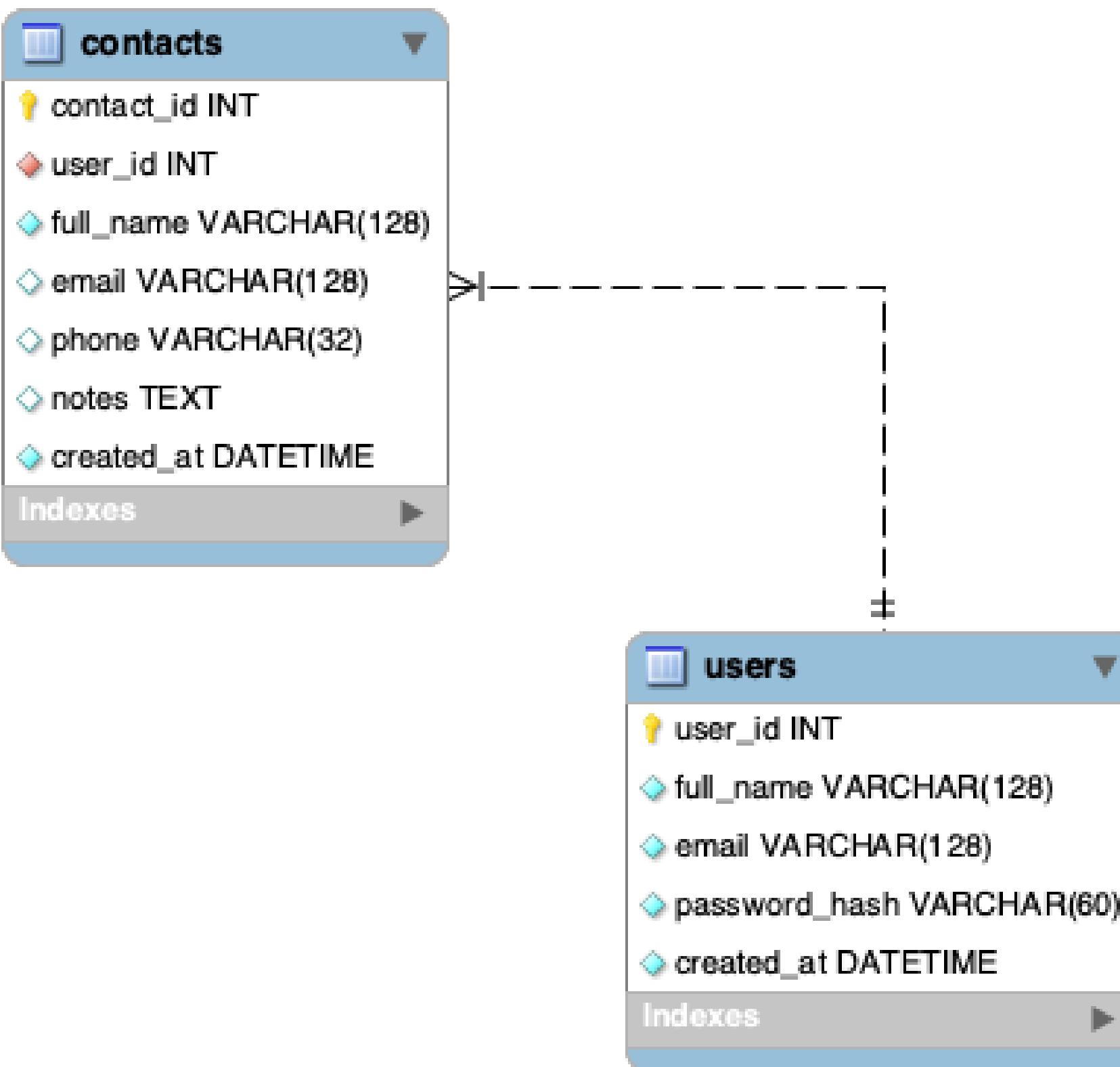
- Switch server built-in Nginx to Apache
- Set up tests on GitHub
- 14 opened issues on GitHub. About 40 pull requests
- Set up the backend and the frontend to be serviced.
- DNS configuration

Gantt Chart

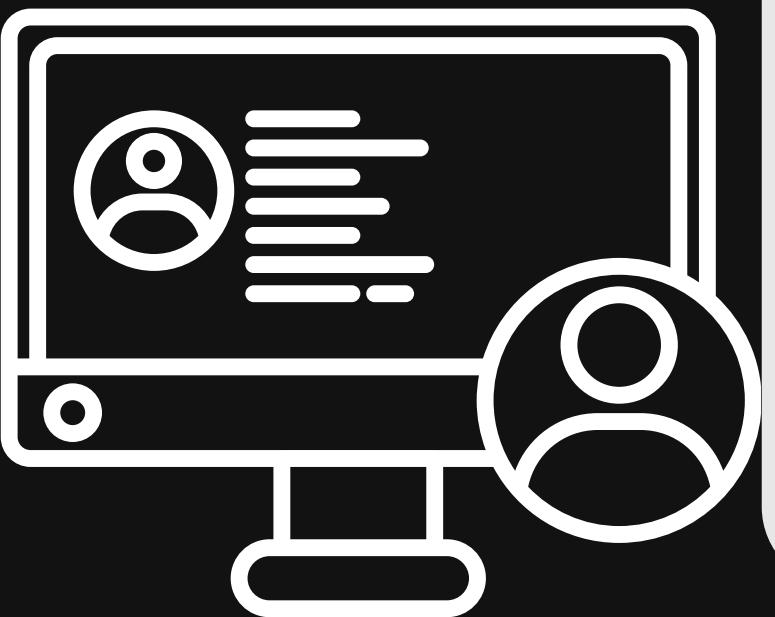


ERD

- Two main entities: Users and Contacts
- One-to-many relationship (One User → Many Contacts) (1-N)
- user_id used as a foreign key in Contacts



```
{  
  "ok": true,  
  "contacts": [  
    {  
      "contact_id": 1,  
      "full_name": "JohnDoe2",  
      "email": "johndoe@email.com",  
      "phone": "4832904823",  
      "notes": "test",  
      "created_at": "2026-02-06 16:23:25"  
    }  
  ]  
}
```



API demonstration

- Interactive API documentation using Swagger (OpenAPI 3.0)
- Demonstrates Contacts endpoint
- Shows request parameters and JSON responses
- Allows live testing directly in the browser

Endpoints shown:

- GET /contacts?user_id=1



Get all contacts for a user

GET https://virtserver.swaggerhub.com/ucf-08f/ContactsAPI/1.0.0/contacts

Returns all of a user's contacts.

Request

Query Parameters

`user_id` integer

The ID of the user

Example: `1`

required

Responses

200 400

Invalid user ID

Body

`ok` boolean

Example: `false`

`error` string

Example: `The User ID is invalid`

Responses

200 400

Contacts retrieved successfully

Body

`ok` boolean

Example: `true`

`contacts` array[object]

`contact_id` integer

Example: `1`

`full_name` string

Example: `Test User`

`email` string

Example: `email@mail.com`

`phone` string

Example: `123-456-7891`

`notes` string

Example: `Example`

`created_at` string<date-time>

Example: `2026-02-15T10:30:00Z`

application/json ▾

Application demonstration

- User authentication (login required)
- View registered contacts
- Create new contacts
- Display stored contact information
- Delete existing contacts

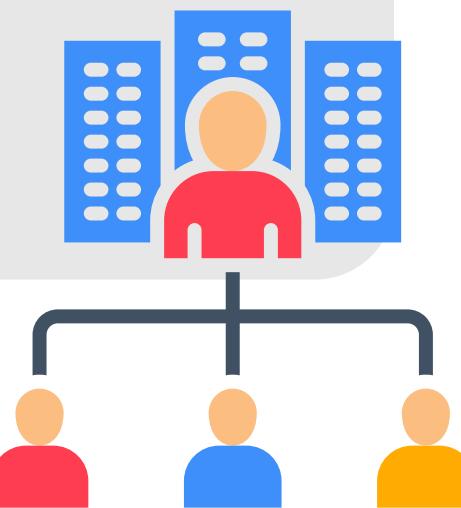
Small Project – Contacts

Logout

Registered contacts

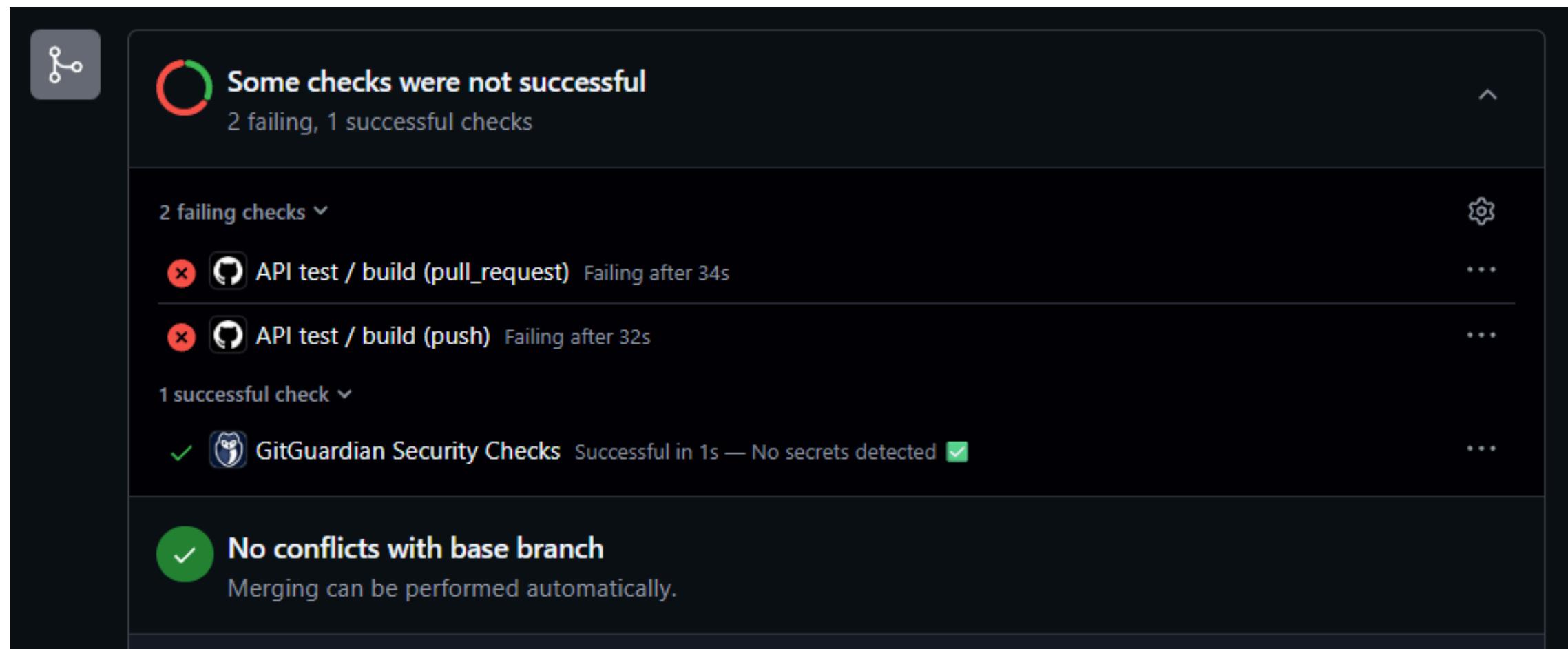
Create Contact Search contacts

Name	Email	Phone	Notes	Actions
Olivia Harper	olivia.harper92@mail.com	(415) 728-1934	Met at marketing conference	Delete
Marcus Chen	mchen.tech@gmail.com	(206) 555-7842	Freelance developer	Delete
Sofia Alvarez	sofia.alvarez.art@yahoo.com	(305) 667-2109	Graphic designer	Delete
Daniel Brooks	daniel.brooks81@outlook	(312) 445-9921	Gym buddy	Delete
Priya Nair	priya.nair.consulting@gmail.com	(732) 908-4433	Business consultant	Delete
Ethan Walker	e.walker.sales@mail.com	(512) 330-1187	Software sales rep	Delete
Chloe Martin	chloe.martin.design@icloud.com	(720) 555-6624	Interior designer	Delete
Jamal Thompson	jamal.t.music@gmail.com	(404) 219-7753	DJ for events	Delete
Lucas Schmidt	lucas.schmidt88@mail.de	(646) 872-0045	Exchange student	Delete
Aisha Khan	aisha.khan.med@gmail.com	(917) 600-2298	Medical student	Delete



Tests - GitHub actions

- Automatically rejects commits and pull requests if any tests fail
- Ensures previously working routes remain functional
- Prevents regressions from being introduced into the codebase
- Provides an extra layer of security when merging changes into the main branch



Questions?