

Birthday Reminder (celebration-reminder-app)

To install dependencies:

```
bun install  
  
or  
  
npm install
```

To run:

```
bun run server.js  
  
or  
  
node server.js
```

This project was created using `bun init` in bun v1.0.3. [Bun](#) is a fast all-in-one JavaScript runtime.

Scheduler

This project uses cron for its job scheduler, located at the path: `services/cronService.js`

```
async function initialize() {  
  cron.schedule('0 9 * * *', async () => {  
    ...  
  })  
}
```

By default the job is set at 9 o'clock.

for testing it can be changed to `* * * * *`, so it runs every minute

Database

For data it is located in the path `models/db.json`

The data format is like this:

```
{  
  "users": [  
    {  
      "id": "1696750350176.116",  
      "first_name": "John",  
      "last_name": "Doe",  
      "email": "john@email.com",  
      "celebration_date": "1998-10-09",  
    }  
  ]  
}
```

```

    "celebration_type": "Anniversary",
    "last_date_sent": "2023-10-10T04:38:07+07:00",
    "timezone": "America/Los_Angeles"
  },
  {
    "id": "1696750350176.7385",
    "first_name": "James",
    "last_name": "Watt",
    "email": "james@email.com",
    "celebration_date": "2014-10-10",
    "celebration_type": "Birthday",
    "last_date_sent": "2023-10-10T04:39:12+07:00",
    "timezone": "Australia/Sydney"
  }
  ...

```

To do testing, set `last_date_sent` empty, so it will look like this

```

{
  "users": [
    {
      "id": "1696750350176.116",
      "first_name": "John",
      "last_name": "Doe",
      "email": "john@email.com",
      "celebration_date": "1998-10-09",
      "celebration_type": "Anniversary",
      "last_date_sent": "",
      "timezone": "America/Los_Angeles"
    },
    ...
  ]
}

```

Data User

To manage user data, such as listing, adding, changing or deleting, it is in the `routes/users.js` url address: `localhost:3000/user`

This application is made flexible, so it's not only for birthday greetings but also for other things, for example anniversaries. in the json data, there is a `celebration_type` field which can be used as needed

```

POST
//post body: json array
example:
[
  {
    "first_name": "John",
    "last_name": "Doe",
    "email": "john@email.com",
    "celebration_date": "1998-10-09",
    "celebration_type": "Anniversary",
    "timezone": "America/Los_Angeles"
  }
]

```

```
},
{
  "first_name": "James",
  "last_name": "Watt",
  "email": "james@email.com",
  "celebration_date": "2014-10-10",
  "celebration_type": "Birthday",
  "timezone": "Australia/Sydney"
}]
```

DELETE

/user/{:id}

example:

/user/1696750350176.116

PUT

// update user

// post body: json array

example

```
[{
  "id": "1696750350176.116",
  "first_name": "John",
  "last_name": "Rock"
},
{
  "id": "1696750350176.7385",
  "first_name": "James",
  "timezone": "Asia/Tokyo"
}]
```

GET

// list user

example

```
[{
  "id": "1696750350176.116",
  "first_name": "John",
  "last_name": "Doe",
  "email": "john@email.com",
  "celebration_date": "1998-10-09",
  "celebration_type": "Anniversary",
  "last_date_sent": "",
  "timezone": "America/Los_Angeles"
}, {
  "id": "1696750350176.7385",
  "first_name": "James",
```

```
    "last_name": "Watt",  
    "email": "james@email.com",  
    "celebration_date": "2014-10-10",  
    "celebration_type": "Birthday",  
    "last_date_sent": "2023-10-10T03:16:24+07:00",  
    "timezone": "Australia/Sydney"  
  }  
}
```

Sample Testing

```
Server is running on port 3000  
Tue Oct 10 2023 04:38:00 GMT+0700 (Western Indonesia Time) - cron.schedule  
trying to send email to james@email.com  
failed  
trying to send email to rani@email.com  
failed  
trying to send email to john@email.com  
Tue Oct 10 2023 04:38:07 GMT+0700 (Western Indonesia Time) - Happy Anniversary, John Doe! 🎉  
Tue Oct 10 2023 04:39:00 GMT+0700 (Western Indonesia Time) - cron.schedule  
trying to send email to rani@email.com  
Tue Oct 10 2023 04:39:03 GMT+0700 (Western Indonesia Time) - Happy Graduation, Rani White! 🎉  
trying to send email to james@email.com  
Tue Oct 10 2023 04:39:12 GMT+0700 (Western Indonesia Time) - Happy Birthday, James Watt! 🎉  
[]
```

Author

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