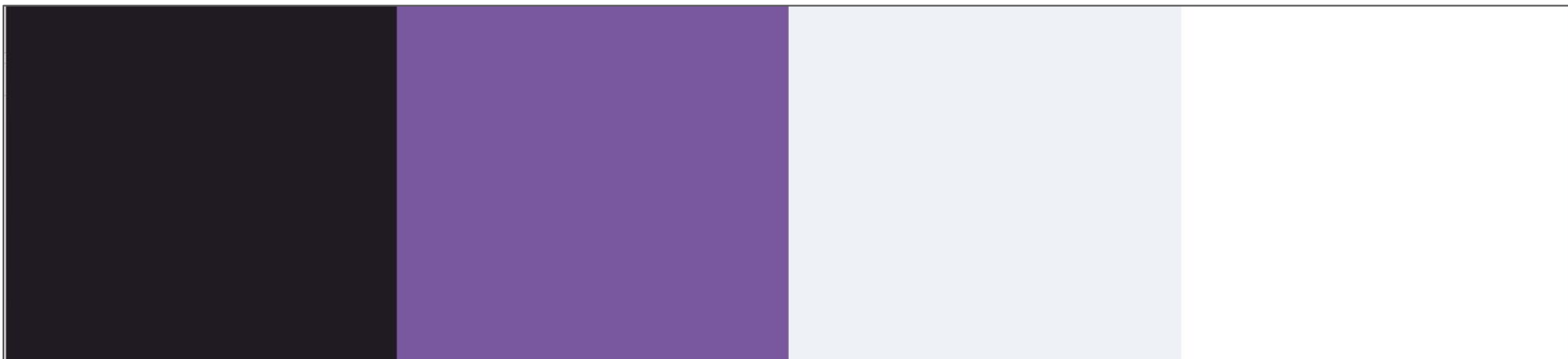# CareSync

Kobby and David

Colour and Logos

Color Palette

Logos

Backend

Notable Packages

- Pdfkit:
  - Create pdfs for storing shift notes/incident reports
- Cloudinary
  - Storing pdfs so the client can download them.

- Nodemailer
  - Sending confirmation emails for new users.
  - Sending carer invitations
- JSON Web Token
  - Stored in an HttpOnly cookie for authentication
  - Sent in an email link for adding carers

Two Types of Users (Can be both)

- Coordinators
    - Manage teams of support workers
    - Create patients
    - Create shifts
    - Create coordinator notes

- Carers
    - Employees that care for the clients
    - Create shift notes
    - Create incident reports
    - Create handover information

Controllers

- User
  - Creation, verification, and authentication.
  - Get all user patients
- Carer
  - Send carer email invitation (must be signed up with CareSync beforehand)
  - Accept invitation (stores PatientID/Carer User ID in a URL which is sent to the user)
  - Remove carer from team.

- Patient
  - Basic CRUD operations.
- Shift
  - Basic CRUD operations
  - GET shifts for specific user
  - GET shifts for specific patient
  - Create shift notes and incident reports.
  - Create handover notes

Downloadable PDF

Client: Hank Ballard
Carer: John Doe
Date: 3/1/2023

CareSync

Incident Report

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum

Client: Hank Ballard
Carer: John Doe
Date: 3/1/2023

CareSync

Shift Notes

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum

Testing

- Extensive use of testing on the backend
- Suites divided into controller categories
- Goal was 90% (Currently at 95%)
- Tried to practice Test Driven Development

```
----------------------|---------|----------|---------|---------|-------------------
File                  | % Stmts | % Branch | % Funcs | % Lines | Uncovered Line #s
----------------------|---------|----------|---------|---------|-------------------
All files             |   95.52 |    89.42 |     100 |   95.52 |
 src                  |     100 |       50 |     100 |     100 |
  server.js           |     100 |       50 |     100 |     100 | 6
 src/config           |      80 |      100 |     100 |      80 |
  db.js               |      80 |      100 |     100 |      80 | 10-11
 src/controllers      |   96.28 |    92.55 |     100 |   96.28 |
  carerController.js  |   96.49 |    94.44 |     100 |   96.49 | 87-88
  patientController.js|   94.54 |     87.5 |     100 |   94.54 | 35-36,125
  shiftController.js  |   97.64 |    95.83 |     100 |   97.64 | 103-104
  userController.js   |   95.83 |    92.85 |     100 |   95.83 | 58-59,179
 src/middleware       |   85.71 |    66.66 |     100 |   85.71 |
  authMiddleware.js   |   81.25 |      100 |     100 |   81.25 | 16-18
  errorMiddleware.js  |     100 |       50 |     100 |     100 | 2-6
 src/models           |     100 |      100 |     100 |     100 |
  patientModel.js     |     100 |      100 |     100 |     100 |
  shiftModel.js       |     100 |      100 |     100 |     100 |
  userModel.js        |     100 |      100 |     100 |     100 |
 src/routes           |     100 |      100 |     100 |     100 |
  carerRoutes.js      |     100 |      100 |     100 |     100 |
  patientRoutes.js    |     100 |      100 |     100 |     100 |
  shiftRoutes.js      |     100 |      100 |     100 |     100 |
  userRoutes.js       |     100 |      100 |     100 |     100 |
 src/services         |   81.81 |      100 |     100 |   81.81 |
  email.js            |   81.81 |      100 |     100 |   81.81 | 29,42
 src/utils            |   95.45 |       50 |     100 |   95.45 |
  helper.utils.js     |   95.45 |       50 |     100 |   95.45 | 46
----------------------|---------|----------|---------|---------|-------------------

Test Suites: 4 passed, 4 total
Tests:       51 passed, 51 total
Snapshots:   0 total
Time:        11.848 s
```

Frontend

Front-end Libraries

Figure 1 (Material UI SAS, 2023)

Figure 2 (FullCalendar LLC, 2023)

- MUI
    - Grid and Stack
    - Modal and Drawer
    - Typography
    - Theme

- FullCalendar
    - DayGrid
    - Interactive Tiles & Events
    - Populate with shift data passed as array

Key Components

- Patient Cards
  - Patient selection screen is the first view after login
  - Dynamically populates with all patients that the user is coordinating/caring for
  - Flag upcoming shifts

- Shift Cards
  - Stores all shift information
  - The next upcoming shift and recent previous shifts can be accessed below the calendar
  - Link to the Shift Details panel

- Calendar
  - See all shifts for patient by month, including the date/time range and assigned carer.

- Modal & Drawer
  - Dynamically display inputs for CRUD operations
  - Show detailed information about shifts in the Shift Details panel

Process

Select Patient

Hi, kobby.asomani@me.com

Select a patient

John Doe
Upcoming shift: dd/mm/yyyy
Last shift: dd/mm/yyyy

Karen Small
Upcoming shift: dd/mm/yyyy
Last shift: dd/mm/yyyy

Joey Pool
Upcoming shift: dd/mm/yyyy
Last shift: dd/mm/yyyy

Add patient

© 2023

HOME ABOUT HELP LOG OUT

Hi, John
Select a patient
Caring for

Hank Ballard
Next shift: 6 Mar 2023, 5:00 pm

Fran Tark
Next shift: No upcoming shift

Coordinating for

Henry Donaldson
Next shift: 2 Mar 2023, 5:00 pm
You are the carer for this shift.

Sandra Frank
Next shift: No upcoming shift

Clean and friendly design

Easy signup and verification

Intuitive user flows

Screen 1:

HOME ABOUT HELP LOG OUT

Hi, John
Select a patient

Caring for

Hank Ballard
Next shift: 6 Mar 2023, 5:00 pm

Fran Tark
Next shift: No upcoming shift

Coordinating for

Henry Donaldson
Next shift: 2 Mar 2023, 5:00 pm
You are the carer for this shift.

Sandra Frank
Next shift: No upcoming shift

Screen 2:

Add Patient ✕

You'll be the coordinator for this patient and can create and manage their care shifts.

New patient

First name *

Last name *

ADD PATIENT

Screen 3:

HOME ABOUT HELP LOG OUT

Henry Donaldson ⇄

◀ **Mar 2023** today ▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	1	2	3	4
9pm Dan Jenki			● 5pm	● 5pm		● 5pm
5	6	7	8	9	10	11
● 5pm	● 5pm	● 5pm				
12	13	14	15	16	17	18
19	20	21	22	23	24	25

Upcoming Shift

📅 2 March 2023 at 5:00 pm
Carer: Dan Jenkins

Recent Shifts

Screen 4:

👤 **Henry Donaldson** ✕

Shift on 2 March 2023
5:00 pm – 11:00 pm

Notes from Coordinator
There is a pool party today. The party starts at noon. Bring swimming apparel if you want to get in the water.

Shift Notes ✏
There are no shift notes for this shift.

Incidents ❗
Incident snippet goes here. Lorem ipsum dolor sit amet consectetur adipisicing elit.

Handover 💬
Incident snippet goes here. Lorem ipsum dolor sit amet consectetur adipisicing elit.

Care Team 👥
Dan Jenkins

Hank Ballard

Mar 2023

today

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	1	2	3	4
5	6	7	8	9	10	11
	5pm John Doe		**5pm** John Doe		• 5pm **John Doe**	• 5pm **John Doe**
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Quick access to all the info you need

David's Favorite Features to Develop

Loaders Made With Framer Motion

#86a760

`mix-blend-mode: difference;`

Pdfkit - Incident Reports and Shift Notes

```javascript
// Creates a pdf doc out of user input/information
const createPDF = async (
  reportType,
  patientFirst,
  patientLast,
  carerFirst,
  carerLast,
  shiftNotes
) => {
  const doc = new PDFDocument();
  doc
    .image(__dirname + "/../images/logopdf.png", 380, 65, {
      width: 125,
    })
  doc.font("Helvetica").fontSize(12).text(`Client: ${patientFirst} ${patientLast}`);
  doc.font("Helvetica").fontSize(12).text(`Carer: ${carerFirst} ${carerLast}`);
  doc
    .font("Helvetica")
    .text(`Date: ${new Date().toLocaleString().split(",")[0]}`);
  doc.font("Helvetica").fontSize(20).moveDown(2).text(`${reportType}`, {
    width: 410,
    align: "center",
    valign: "top",
  });
  doc.font("Helvetica").fontSize(12).moveDown(1).text(`${shiftNotes}`);
  doc.end();
  return await getStream.buffer(doc);
};
```

Client: Hank Ballard
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CareSync

Shift Notes

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Kobby's Favorite Features to Develop

Shift Card + MUI Dynamic Modal and Drawer

- `<Outlet />`
- Reducers for managing reusable elements
- Conditional rendering
- Context

Thanks for watching!

Kobby and David

References

FullCallendar LLC 2023, FullCalendar logo, online image, viewed 2 March 2023, https://avatars.githubusercontent.com/u/13825204

Material UI SAS, 2023, MUI logo, online image, viewed 2 March 2023, https://mui.com/static/logo.png