

# Virtual Field Final Prototype

[Figma Virtual Field Prototype](#)

HF770: Prototyping and Interactive Design  
Bentley University

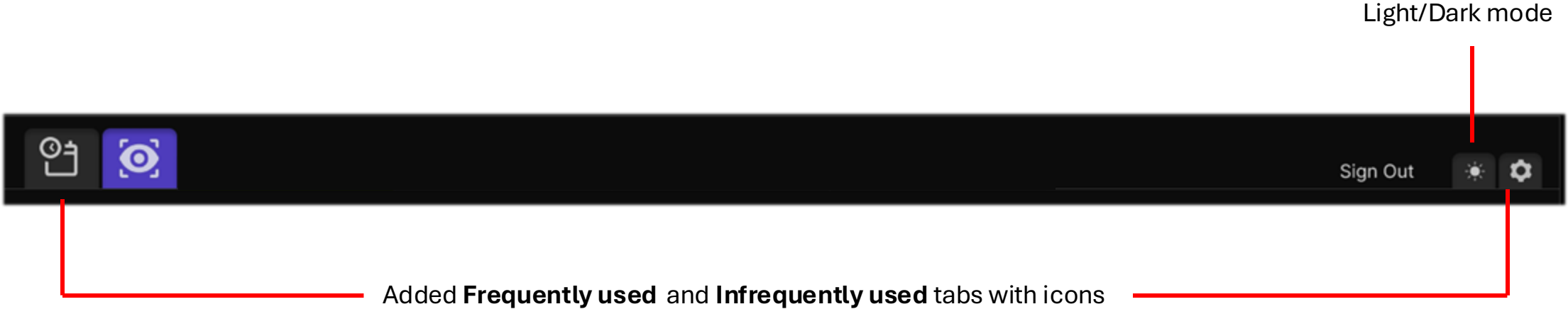


**Keyur Patel**

# Objective

1. Deliver a refreshed yet familiar look
2. Add requested functionality while enhancing efficiency
3. Balanced information and allocation
4. Tailor to unique needs of clinicians and technicians
5. **What** do I need to do, **when** and to **whom**?

# Navigation Bar



# Navigation Bar



Added **multiple patient** tab functionality

# Today's Schedule

Patients and fields populated from daily EMR flat-file upload

Sign Out

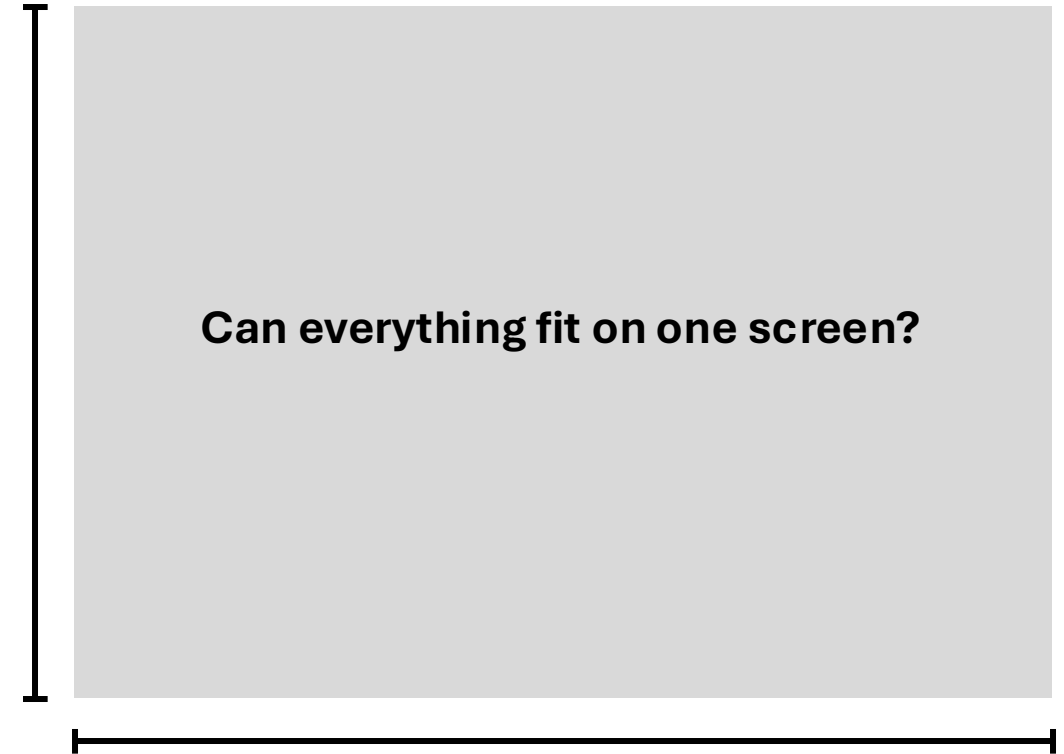
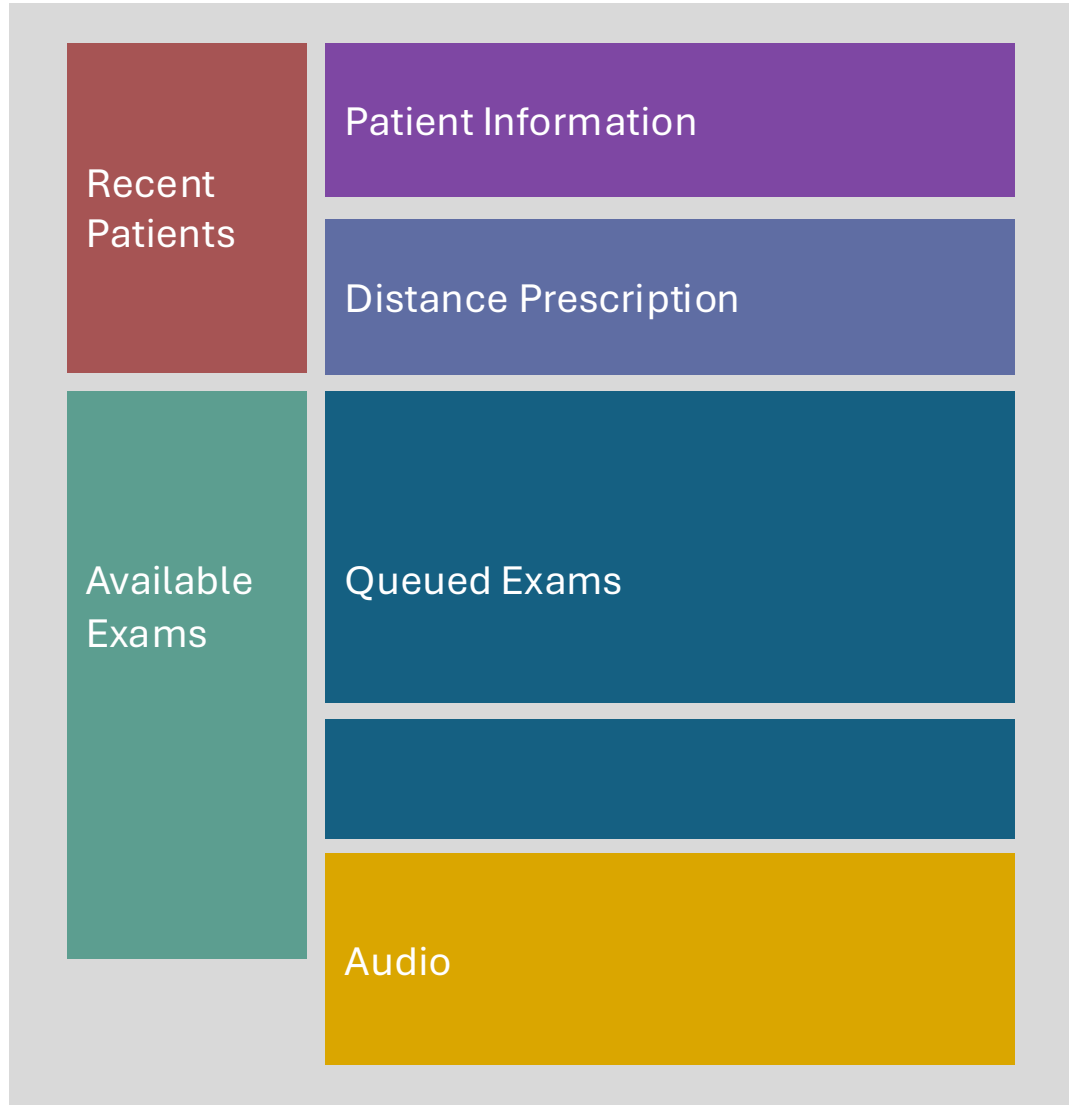
Schedule for MONDAY 12/16/2024

Filters Jonathan Ericson, MD

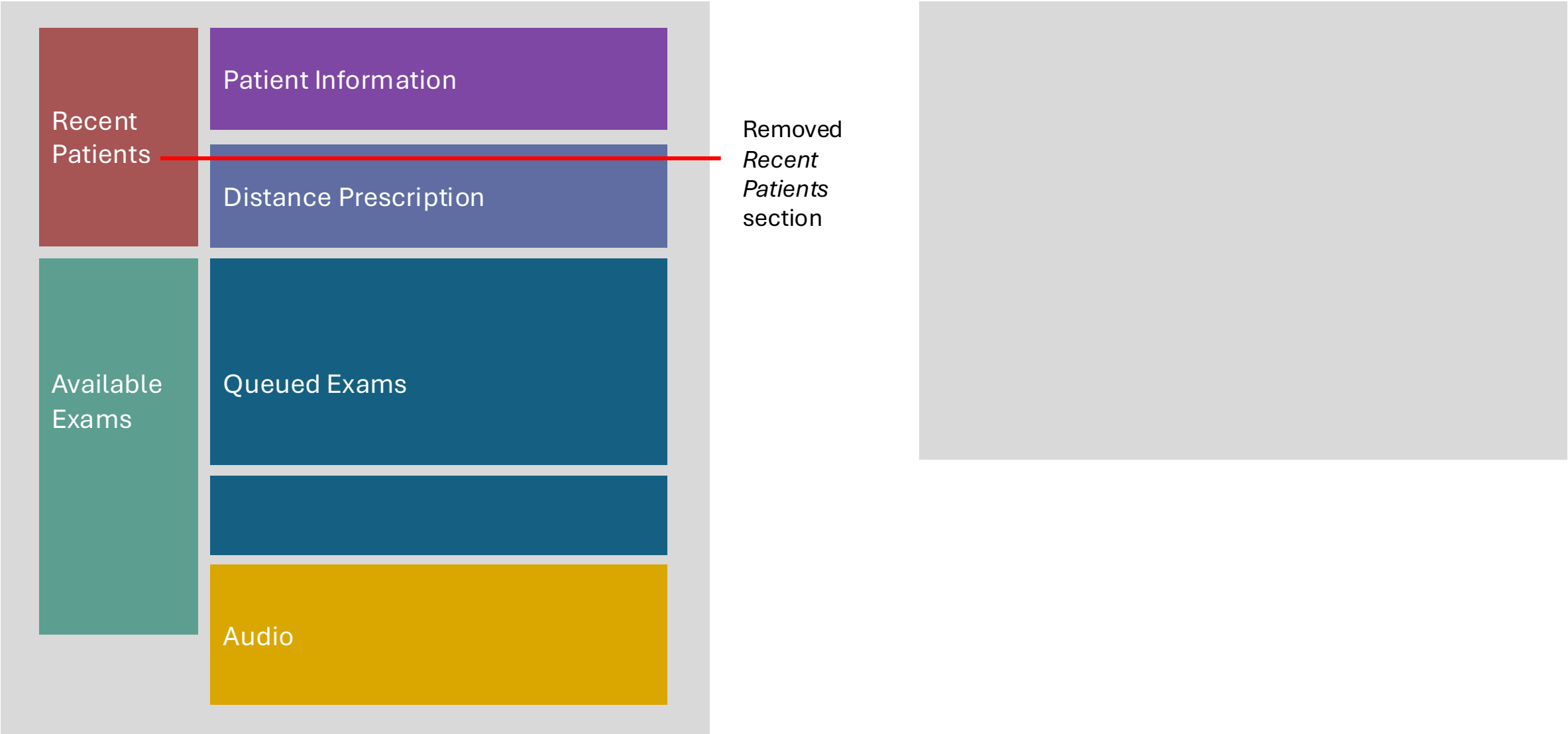
Upload File

Appt Time	Scheduled	Exam Queued	Report Available
8:00 AM	8:00 AM Padukone, Deepika		8:30 AM Pinkman, Jesse
			9:00 AM White, Walter
9:00 AM			9:30 AM Hart, Kevin
			10:00 AM Knowles, Beyonce
10:00 AM			10:30 AM Jagger, Mick
			11:00 AM Jordan, Michael
11:00 AM			11:30 AM McCartney, Paul
12:00 PM		12:00 PM Timberlake, Justin <small>In Progress</small>	
		12:30 PM Winfrey, Oprah	
1:00 PM			
		1:30 PM Swift, Taylor	
2:00 PM	2:00 PM Poppins, Mary		
	2:30 PM Biel, Jessica		
3:00 PM	3:00 PM Phelps, Michael		
	3:30 PM Lopez, Jennifer		
4:00 PM	4:00 PM Anthony, Marc		
	4:30 PM Glass, Ira		

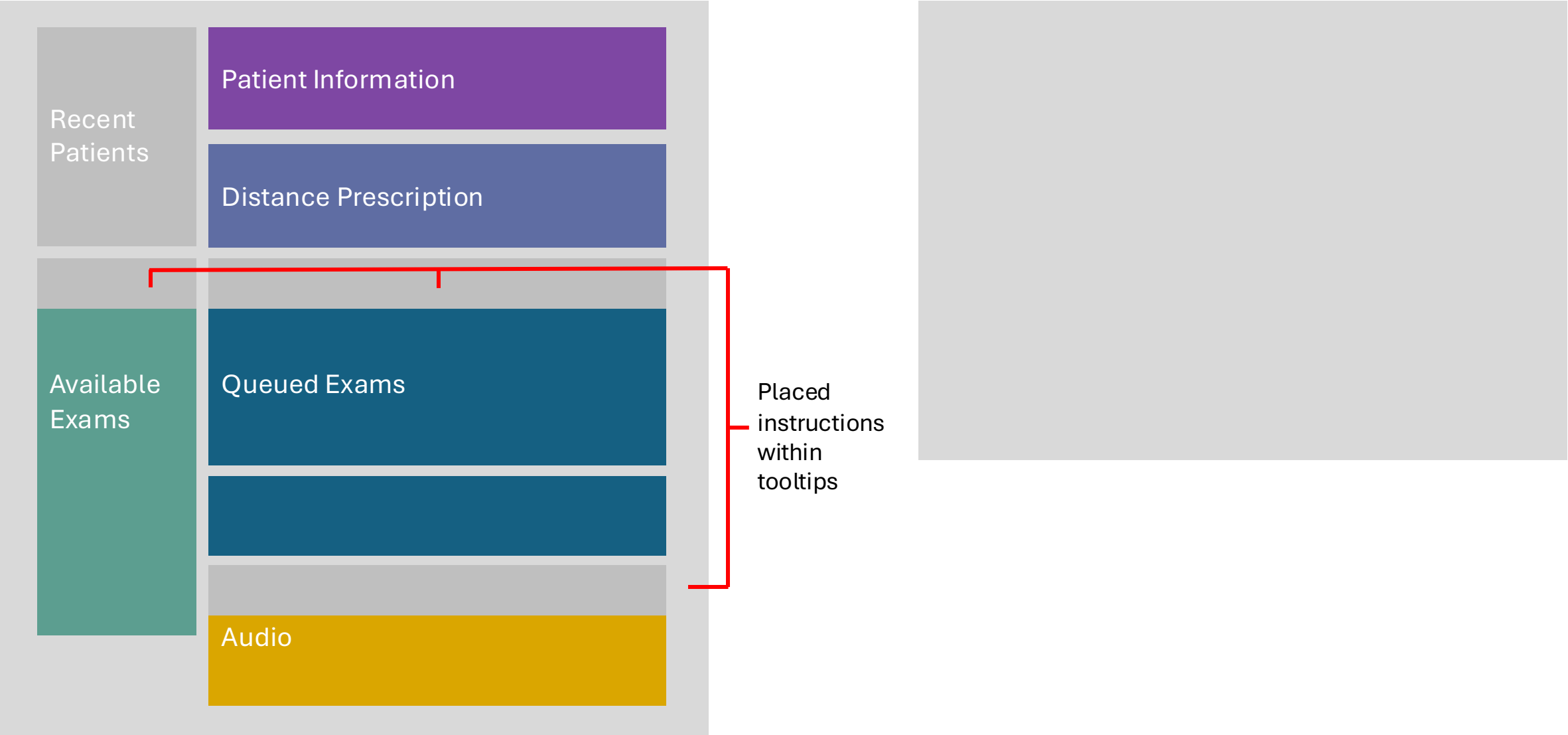
# Exam Setup – the challenge



# Exam Setup – the challenge

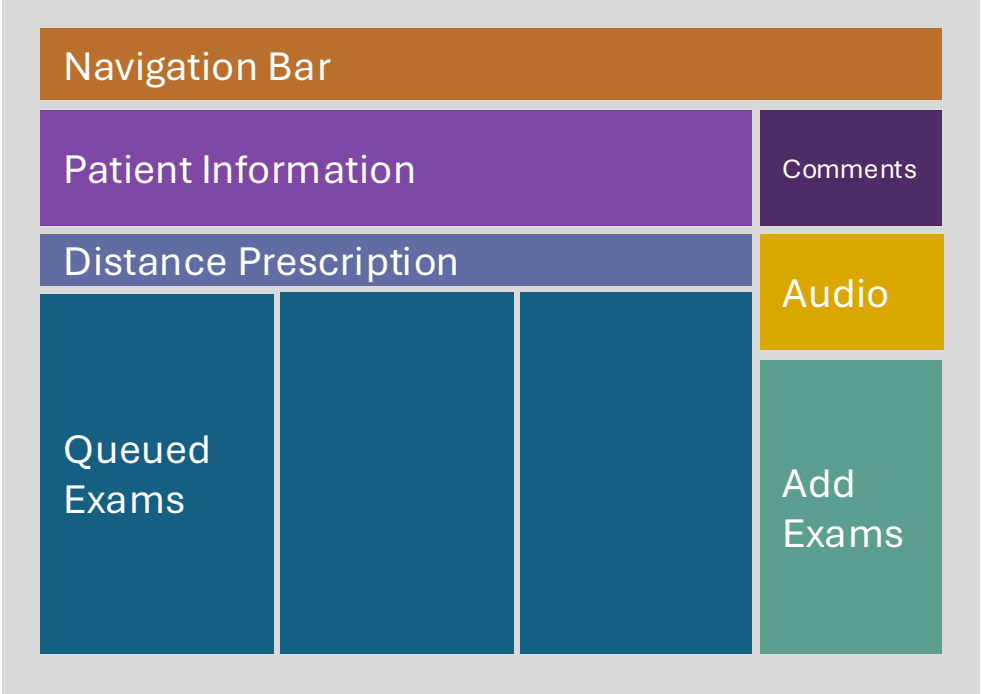
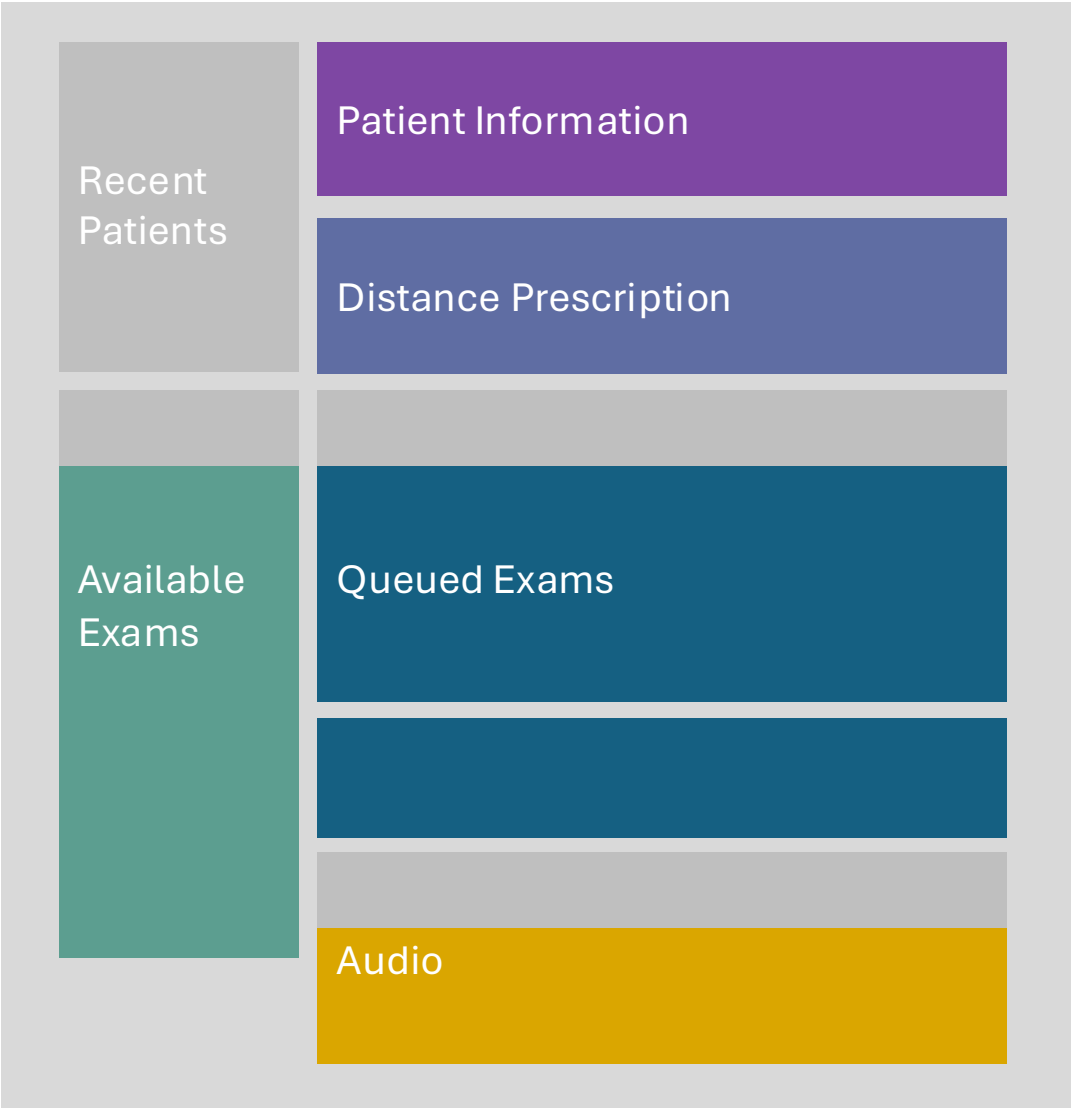


# Exam Setup – the solution

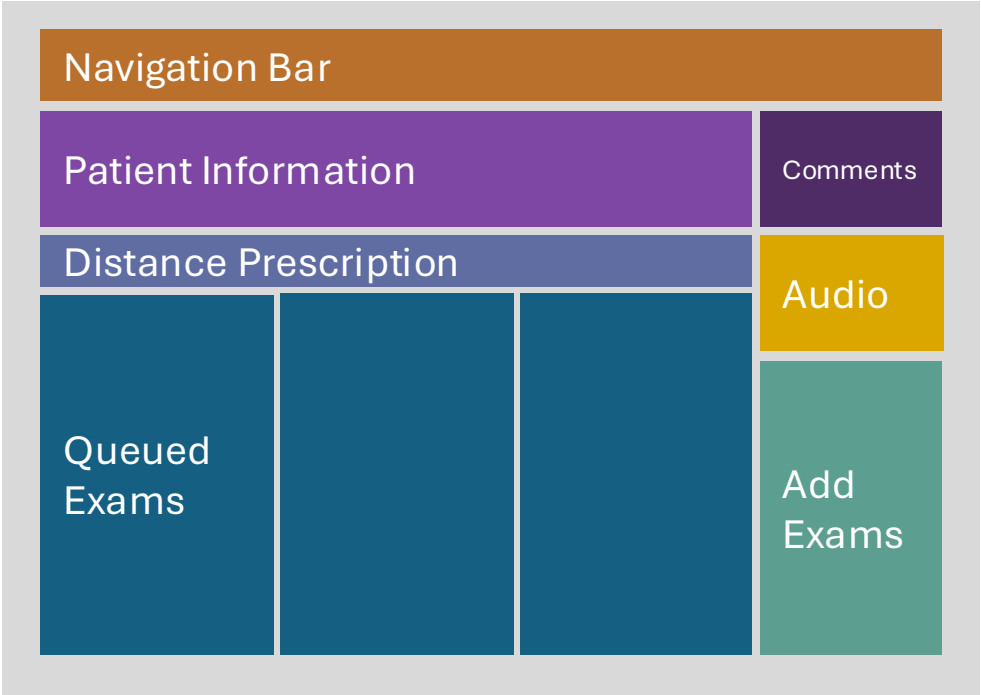




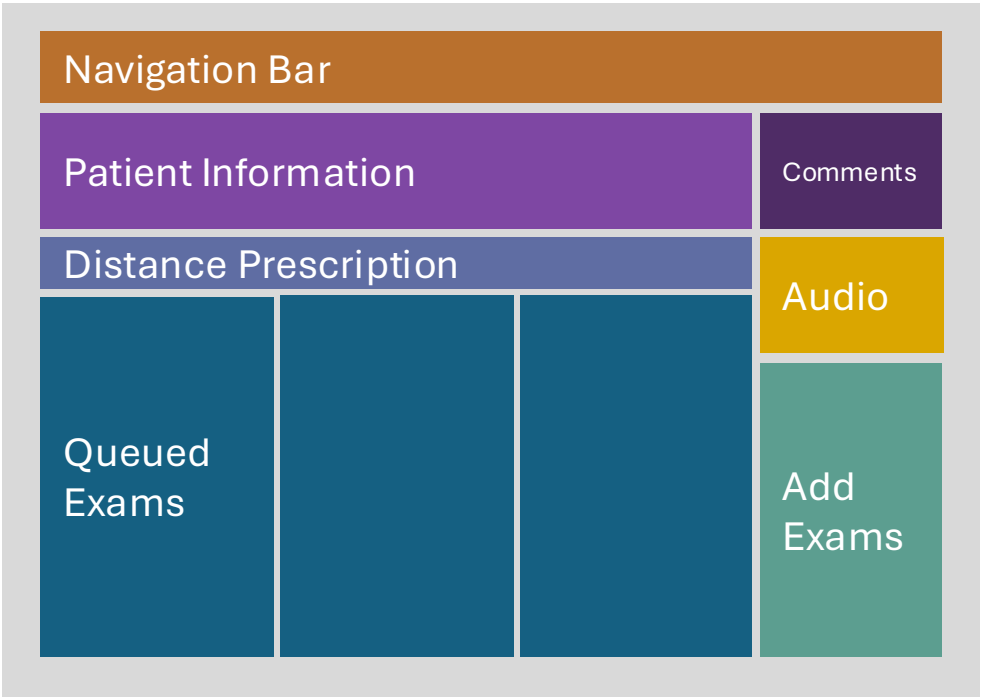
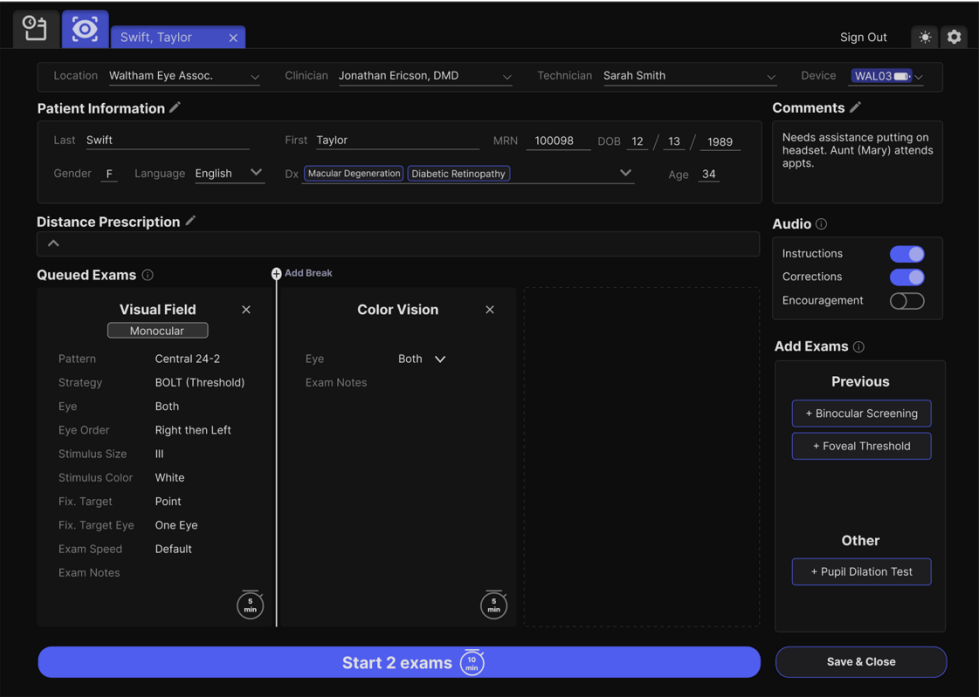
# Exam Setup – the solution



# Exam Setup – the solution



# Exam Setup – the solution



# Exam Setup – the solution

Swift, Taylor

×

Sign Out

Location

Waltham Eye Assoc.

▼

Clinician

Jonathan Ericson, DMD

▼

Technician

Sarah Smith

▼

Device

WAL03

▼

Patient Information

✎

Last

Swift

First

Taylor

MRN

100098

DOB

12

/

13

/

1989

Gender

F

Language

English

▼

Dx

Macular Degeneration

Diabetic Retinopathy

▼

Age

34

Comments

✎

Needs assistance putting on headset. Aunt (Mary) attends appts.

Distance Prescription

✎

^

Queued Exams

ⓘ

Add Break

Visual Field

×

Monocular

Pattern

Central 24-2

Strategy

BOLT (Threshold)

Eye

Both

Eye Order

Right then Left

Stimulus Size

III

Stimulus Color

White

Fix. Target

Point

Fix. Target Eye

One Eye

Exam Speed

Default

Exam Notes

8 min

Color Vision

×

Eye

Both

▼

Exam Notes

8 min

Audio

ⓘ

Instructions

☒

Corrections

☒

Encouragement

☐

Add Exams

ⓘ

Previous

+ Binocular Screening

+ Foveal Threshold

Other

+ Pupil Dilation Test

Start 2 exams

10 min

Save & Close

# Exam Setup – Patient Information and Comments

Patient Information

LastSwiftFirstTaylorMRN100098DOB12 / 13 / 1989GenderFLanguageEnglishDxMacular DegenerationDiabetic RetinopathyAge34

Comments

Needs assistance putting on headset. Aunt (Mary) attends appts.

# Exam Setup – Patient Information and Comments

Patient Information

LastSwift

FirstTaylor

MRN100098

DOB12 / 13 / 1989

GenderF

LanguageEnglish

Dx

Macular Degeneration

Diabetic Retinopathy

Myopia

Age34

Comments

Needs assistance putting on headset. Aunt (Mary) attends appts.

+92102 Glaucoma

+6737 Strabism

+6737 Color Blindness

Set **Language** to patient-level

Added **Diagnosis** drop down field referencing ICD-10 codes

Added patient-level **Comments**

# Exam Setup – Add Exams

The screenshot displays the 'Queued Exams' interface. It features two main panels for exam configuration: 'Visual Field' and 'Color Vision'. The 'Visual Field' panel includes a 'Monocular' toggle and a list of settings: Pattern (Central 24-2), Strategy (BOLT (Threshold)), Eye (Both), Eye Order (Right then Left), Stimulus Size (III), Stimulus Color (White), Fix. Target (Point), Fix. Target Eye (One Eye), Exam Speed (Default), and Exam Notes. The 'Color Vision' panel includes an 'Eye' dropdown (Set to 'Select'), Exam Notes, and a 5-minute timer. A central dashed box indicates the exam area. On the right, the 'Add Exams' sidebar shows 'Corrections' and 'Encouragement' toggles, and two categories of exam shortcuts: 'Previous' (with '+ Binocular Screening' and '+ Foveal Threshold' buttons) and 'Other' (with '+ Pupil Dilation Test' button). Red arrows point from the 'Visual Field' and 'Color Vision' panels to the text 'Prepopulated, editable fields' below. Another red arrow points from the 'Previous' exam shortcuts to the text 'Added shortcut buttons based on patient's Previous exam history' below.

Setting	Value
Pattern	Central 24-2
Strategy	BOLT (Threshold)
Eye	Both
Eye Order	Right then Left
Stimulus Size	III
Stimulus Color	White
Fix. Target	Point
Fix. Target Eye	One Eye
Exam Speed	Default
Exam Notes	

Prepopulated, editable fields

Added shortcut buttons based on patient's **Previous** exam history

# Exam Setup – Add Exams

The screenshot displays the 'Queued Exams' interface with two main panels: 'Visual Field' and 'Color Vision'. The 'Visual Field' panel includes settings for Pattern (Central 24-2), Strategy (BOLT (Threshold)), Eye (Both), Eye Order (Right then Left), Stimulus Size (III), Stimulus Color (White), Fix. Target (Point), Fix. Target Eye (One Eye), Exam Speed (Default), and Exam Notes. The 'Color Vision' panel includes Eye (Select), Exam Notes, and a 5 min timer. The 'Add Exams' section on the right shows 'Previous' exams (+ Binocular Screening, + Foveal Threshold) and 'Other' exams (+ Pupil Dilation Test). A red arrow points from the text box below to the 'Add Exams' section, and another red arrow points from the text box to the 'Color Vision' panel.

**Queued Exams** ⓘ

**Visual Field** ×

Monocular

Pattern Central 24-2

Strategy BOLT (Threshold)

Eye Both

Eye Order Right then Left

Stimulus Size III

Stimulus Color White

Fix. Target Point

Fix. Target Eye One Eye

Exam Speed Default

Exam Notes

5 min

**Color Vision** ×

Eye Select ▼

Exam Notes

5 min

**Add Exams** ⓘ

**Previous**

+ Binocular Screening

+ Foveal Threshold

**Other**

+ Pupil Dilation Test

Corrections ☒

Encouragement ☐

Added shortcut buttons for **Other**  
commonly performed exams



# Exam Setup – Add Exams

Reoriented exams to add horizontally

Queued Exams ⓘ

Visual Field

×

Monocular

Pattern

Central 24-2

Strategy

BOLT (Threshold)

Eye

Both

Eye Order

Right then Left

Stimulus Size

III

Stimulus Color

White

Fix. Target

Point

Fix. Target Eye

One Eye

Exam Speed

Default

Exam Notes

5 min

+

Add Break

Color Vision

×

Eye

Select

▼

Exam Notes

5 min

Corrections

☒

Encouragement

☐

Add Exams ⓘ

Previous

+ Binocular Screening

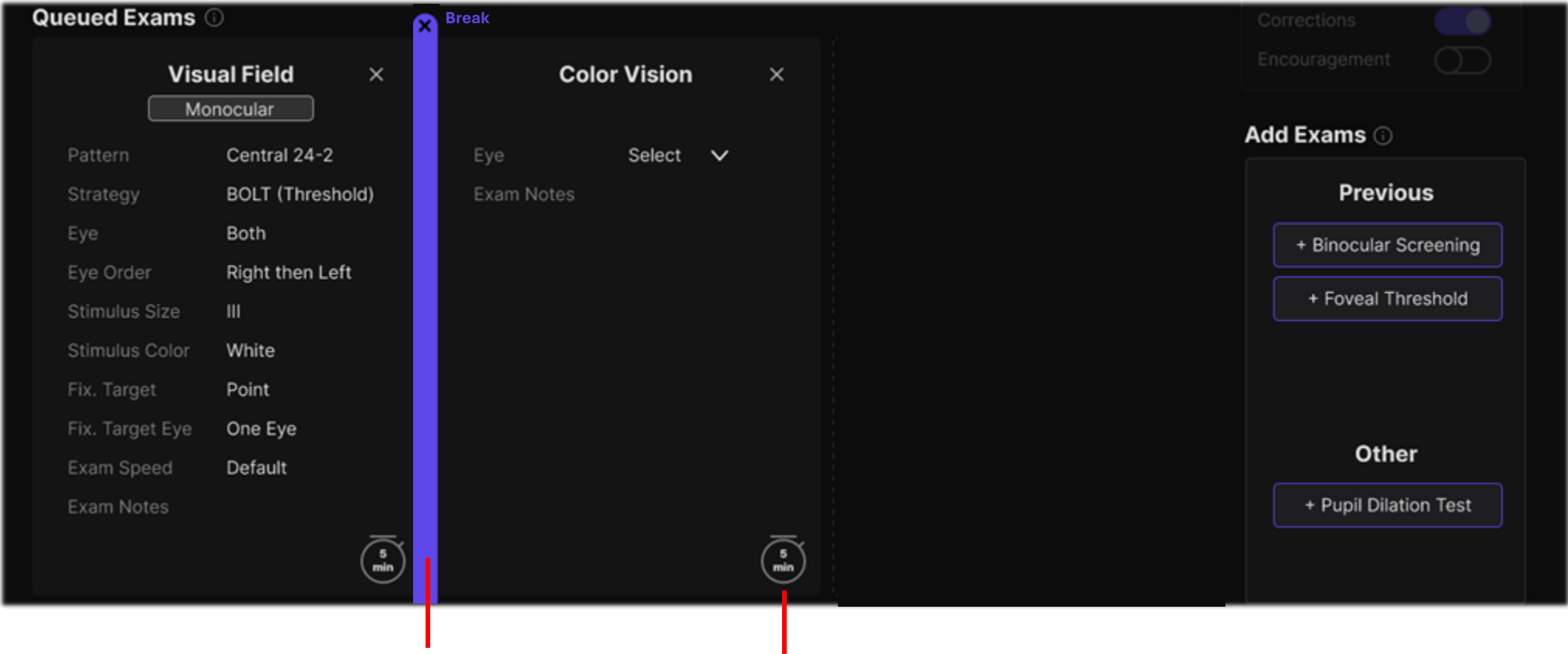
+ Foveal Threshold

Other

+ Pupil Dilation Test

Reoriented exam fields  
to list vertically

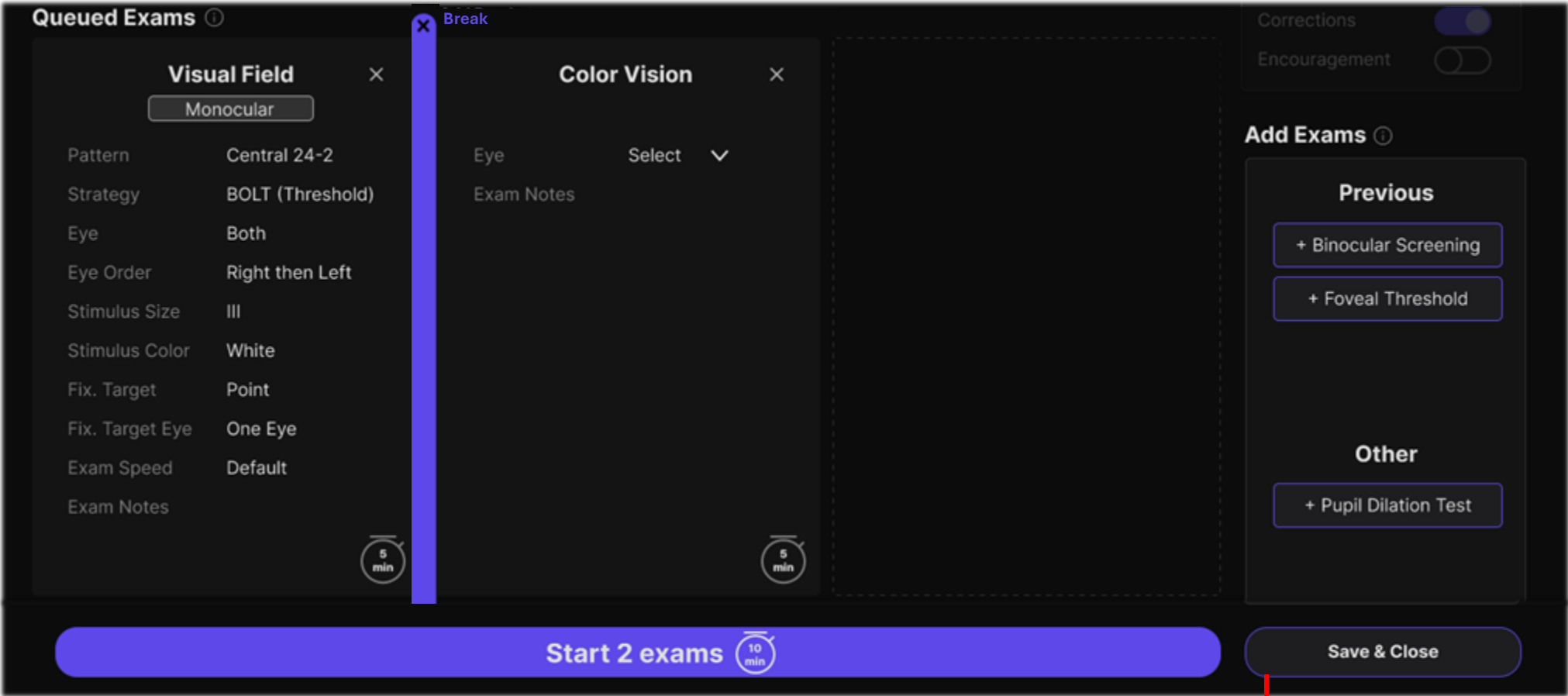
# Exam Setup – Add Exams



Added **Break** functionality

Added exam length

# Exam Setup – Add Exams



Enlarged **Start Exams** button

**Save & Close** feature for queueing exams and saving for later use

# Settings

Sign Out





Logged in as: Jacobs, Andrea

Accounts

Last Name	First Name	Role	Account Email	Date Added	
Ericson	Jonathan	Clinician	jericson@walthameye.com	1/2/2023	Deactivate
Jacobs	Andrea	Technician	ajacobs@walthameye.com	9/5/2024	Deactivate
Montalvan Rivas	Pamy	Administrator	pmontalvan@walthameye.com	1/1/2023	Deactivate
Patel	Keyur	Technician	kpatel@walthameye.com	10/8/2024	Deactivate
Smith	Sarah	Technician	ssmith@walthameye.com	1/2/2023	Deactivate
Tanishq	Raj	Clinician	rtanishq@walthameye.com	11/2/2023	Deactivate

Add User

Devices

Device Name	Headset	Status		Date Added		
WAL01	VF1423	Charged		>75%	1/2/2023	Deactivate
WAL02	VF1234	Charging		----	9/5/2024	Deactivate
WAL03	VF1276	Low Battery		< 75%	1/1/2023	Deactivate
WAL04	VF1092	Off		<10%	10/8/2024	Deactivate

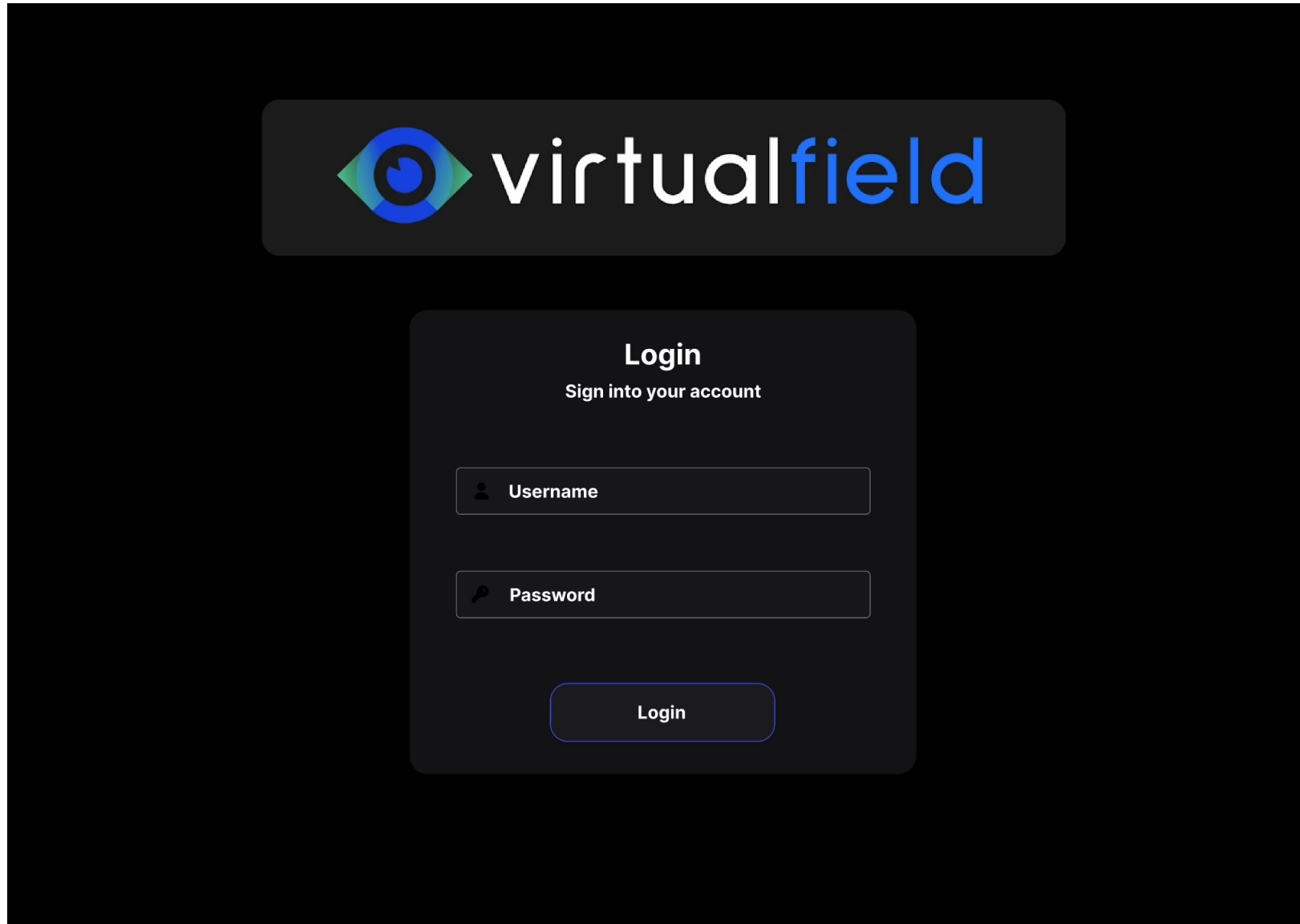
Add Device

Add a **User**  
or **Device**

Deactivate a  
**User** or **Device**

Check device **battery life**

# Prototype Walkthrough



The image shows a dark-themed login screen for 'virtualfield'. At the top, the logo features a stylized eye icon with a blue and green gradient, followed by the text 'virtualfield' in a white sans-serif font, with 'virtual' in white and 'field' in blue. Below the logo is a rounded rectangle containing the title 'Login' and the subtitle 'Sign into your account'. There are two input fields: the first is labeled 'Username' with a person icon, and the second is labeled 'Password' with a key icon. A 'Login' button is positioned at the bottom of the form area.

**virtualfield**

**Login**  
Sign into your account

Login

**Questions?**



Sign Out

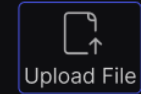


## Schedule for MONDAY 12/16/2024




Filters

Jonathan Ericson, MD



Appt Time	Scheduled	Exam Queued	Report Available
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			8:30 AM Pinkman, Jesse
9:00 AM			9:00 AM White, Walter
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			10:30 AM Jagger, Mick
11:00 AM			11:00 AM Jordan, Michael
			11:30 AM McCartney, Paul
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		12:30 PM Winfrey, Oprah	
1:00 PM			
		1:30 PM Swift, Taylor	
2:00 PM	2:00 PM Poppins, Mary		
	2:30 PM Biel, Jessica		
3:00 PM	3:00 PM Phelps, Michael		
	3:30 PM Lopez, Jennifer		
4:00 PM	4:00 PM Anthony, Marc		
	4:30 PM Glass, Ira		

### Patient Information

Comments 

Needs assistance putting on headset. Aunt (Mary) attends appts.

## Distance Prescription

## Queued Exams

**+ Add Break**

The image shows a dark-themed mobile application interface. At the top, the title "Color Vision" is displayed in a large, bold, white font. To the right of the title is a white "X" icon. Below the title, there are two buttons: "Eye" and "Both". The "Both" button has a white downward-pointing chevron icon to its right. Below these buttons is a section titled "Exam Notes" in a white font. At the bottom right of the screen, there is a circular timer icon with a white border. Inside the circle, the text "5 min" is displayed. A white checkmark icon is visible to the right of the timer circle.

**Audio** ⓘ

Instructions ☒

Corrections ☒

Encouragement ☐

## Add Exams ⓘ

```
graph TD; A[Previous] --> B["+ Binocular Screening"]; B --> C["+ Foveal Threshold"]; C --> D[Other]; D --> E["+ Pupil Dilation Test"];
```

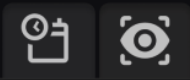
The flowchart illustrates the sequence of tests for strabismic amblyopia. It begins with a box labeled "Previous". An arrow points down from "Previous" to a box containing "+ Binocular Screening". From there, an arrow points down to a box containing "+ Foveal Threshold". Another arrow points down to a box labeled "Other". Finally, an arrow points down from "Other" to a box containing "+ Pupil Dilation Test".

## Start 2 exams



**Save & Close**





Sign Out







Logged in as: Jacobs, Andrea

## Accounts

Last Name	First Name	Role	Account Email	Date Added	
Ericson	Jonathan	Clinician	jericson@walthameye.com	1/2/2023	<button>Deactivate</button>
Jacobs	Andrea	Technician	ajacobs@walthameye.com	9/5/2024	<button>Deactivate</button>
Montalvan Rivas	Pamy	Administrator	pmontalvan@walthameye.com	1/1/2023	<button>Deactivate</button>
Patel	Keyur	Technician	kpatel@walthameye.com	10/8/2024	<button>Deactivate</button>
Smith	Sarah	Technician	ssmith@walthameye.com	1/2/2023	<button>Deactivate</button>
Tanishq	Raj	Clinician	rtanishq@walthameye.com	11/2/2023	<button>Deactivate</button>

Add User

## Devices

Device Name	Headset	Status	Date Added			
WAL01	VF1423	Charged		>75%	1/2/2023	<button>Deactivate</button>
WAL02	VF1234	Charging		----	9/5/2024	<button>Deactivate</button>
WAL03	VF1276	Low Battery		< 75%	1/1/2023	<button>Deactivate</button>
WAL04	VF1092	Off		<10%	10/8/2024	<button>Deactivate</button>

Add Device