Adiu

Agenda

1. Recap and Initial Hypothesis
2. Pretotyping with Early Adopters
3. Company Website
4. Product Demo Video

Brief Recap on Adiu

We are currently developing a platform to help speech-language pathologists detect their patients' speech impairments with greater accuracy using AI.

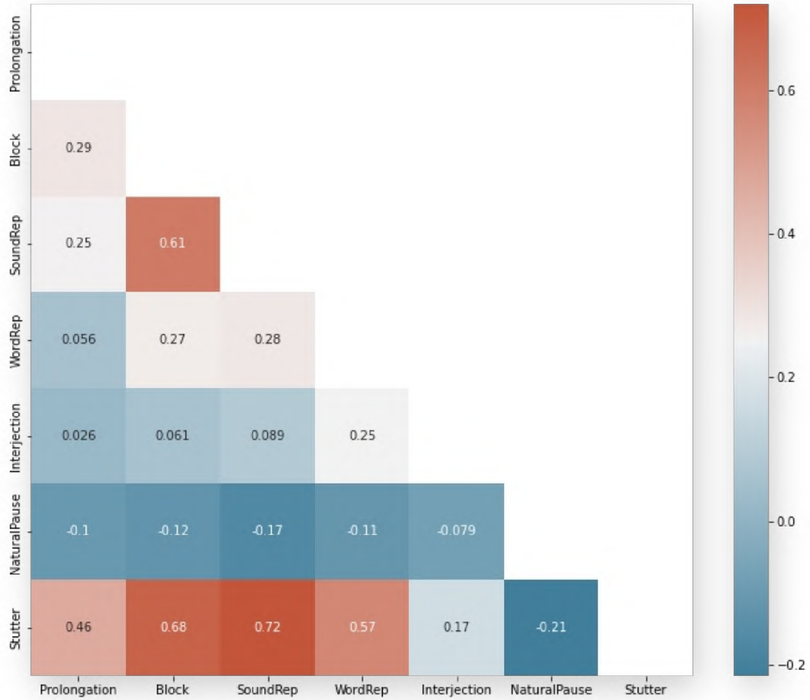
Vision Statement

Serve for Speech

Initial Pretotype Hypothesis

Speech-language pathologists would appreciate an AI product that automatically detects characteristics of stuttering from audio files so that they can use the extra time for diagnosis and treatment.

Initial Idea Validation using Exploratory Data Analysis & Machine Learning:




```
feature_names =
['Prolongation','Block','SoundRep','WordRep','Interjection','NaturalPause']
X = final_df[feature_names]
y = final_df['Stutter']

from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test =
train_test_split(X, y, test_size = 0.3, random_state = 0)

from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score

model = LogisticRegression().fit(X_train, y_train)
predictions = model.predict(X_test)
model_accuracy = accuracy_score(y_test, predictions)

print('Accuracy of the model on test data: {:.2f}'.format(model_accuracy))
Accuracy of the model on test data: 0.99
```

Dataset: Sep-28k (A Dataset for Stuttering Event Detection from Podcasts with People Who Stutter) by Apple Machine Learning Research

MVP 1.0: Feasible Product Idea

Detection of Stuttering Events using

- Artificial Neural Networks (ANN) (or)
- Hidden Markov Models (HMM) (or)
- Support Vector Machine (SVM)

Reference: Machine Learning for Stuttering Identification: Review, Challenges and Future Directions by SA Sheikh

Bonus feature: Facial Expression Emotion Recognition using Computer Vision

Reference: Facial Emotion Recognition Using Conventional Machine Learning and Deep Learning Methods: Current Achievements, Analysis and Remaining Challenges by Amjad Rehman Khan

Pretotyping with Early Adopters

2.Pretotyping with Early Adopters

Identification

SUTD Family

Dr. Denise Lee
Dr. Allison Lin
Dr. Yen Wern

Bachelors of
Speech Pathology @
University of Queensland

Speech and Language Therapy Singapore

Official group of SIT students enrolled inside of the Speech and Pathology Programme.

Dr. Elizabeth Mui

Research Assistant @ National University of Education, SG

Locum Speech and Language Therapist @ Dinosaur Speech Therapy

Senior Speech and Language Therapist @ Thomson Medical Center Limited

Speech and Language Therapy Singapore (SALTS)

Professional association for Speech & Language therapists driven to serve as the voice of speech and language therapy in partnership with speech and language therapists, governing bodies and public institutions, and international partners.

Interview Status:

Experiment and Plan

"If we build it, will they use it?"

[1] Jim Poss, Inventor of BigBelly Solar Trash Compactor

2.Pretotyping with Early Adopters

Experiment and Plan

DAY TO DAY WORKFLOW OF SPEECH THERAPIST

- What kind of technology is deployed in your work and how has it developed during the last years?
- What is the most surprising challenge in your day-to-day work?
- If you could have any feature of a technology that would assist you in your work, what would you ask for?

INITIAL PATIENT POINT OF CONTACT

- What is generally expected as the outcome from a first session before the second one?
- What goes into the preparation before first meeting a patient?

PATIENT DATA PROCESS

- What information do you collect from the patients during diagnosis and treatment?
- What have been the most notable changes in the speech therapy process?
- What is the biggest challenge with working with patient data?

PRODUCT PITCH

- Present hypothesis and product idea

Reactions to MVP 1.0

> Another thing about stuttering is that relative to other speech and language disorders, their prevalence is generally lower... I don't get as many patients who stutter compared to patients with language and voice disorders...
> We rarely deal with clients who have stuttering issues. You can try reaching out to doctors at Fluency Clinics.

Dr. Elizbeth Mui
Research Assistant @ National University of Education (Singapore)

> It'd be great to have software that doesn't autocorrect anything but somehow still manages to get the language sample correct... [multi-language] code switching would also be extremely helpful.

Dr. Denise Lee,
Speech Language Pathologist (Singapore)

Actionable Learnings

...Preserve or Pivot? [1]

[1] Hypothesis-Driven Entrepreneurship: The Lean Startup

Reasons for Pivoting

"Not launching is painful, but not learning can be fatal..." - Drew Houston, Dropbox

The sample size of targeted users

Other Start-ups
General Public

Adiu
Speech Therapists

Reasons for Pivoting

"Not launching is painful, but not learning can be fatal..." - Drew Houston, Dropbox

The sample size of targeted users

No more narrowing down!

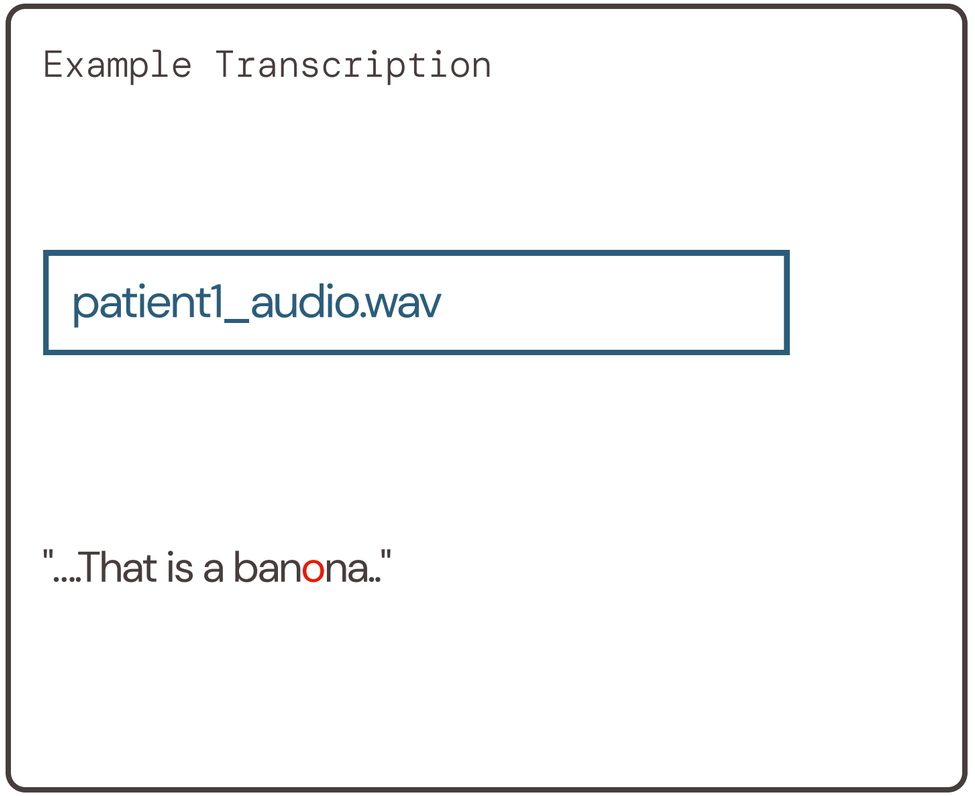
Other Start-ups
General Public

Adiu
Speech Therapists

MVP 2.0: Product Demo Video

1. Compatible with both **audio & video file formats**
2. Transcribes audio to text **without autocorrecting**
3. **Highlights** the incorrect words/sounds

Potential horizontal expansion with grouping of similar words that are pronounced incorrectly.



Reactions to MVP 2.0

**Depends on the product price...
But it looks good!**

Dr. Yen Wern,
Speech & Language Therapist @
SPD (Singapore)

Anything that helps with transcription is always good...

Also need to video their face not just the audio!

Dr. Allison Lin,
Speech Language Pathologist @
Better Rehab (Australia)

**It's worth downloading. The product is cool, I like the drag and drop...
it's good that it picks up on errors too!**

Dr. Denise Lee,
Speech Language Pathologist (Singapore)

Company Website

Home Solutions Pricing People Log In GET STARTED

Serve for Speech

An all in one platform to accurately use machine learning in reducing the manual workflow for speech therapists everywhere around the world.

GET A DEMO

Trusted by leading academia and speech organizations

SIT Singapore Institute of Technology · SUTD Singapore University of Technology and Design · SALTS · NUS National University of Singapore

The seamless speech transcription platform

We are focused on crafting a product that allows for simple step-by-step interactions for speech therapists in automatically identifying and correcting the audio pronunciations translated from their patients.

SIGN UP FOR A DEMO!

Free
Starting at
$0
GET STARTED
- 2 users
- 10 translations
- Unlimited viewers
- 1 workspace

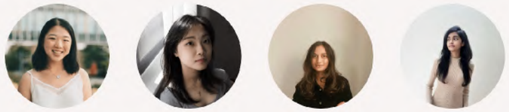
Team
Starting at
$49/user
GET STARTED
- Up to 3 users
- 100 translations
- Unlimited viewers
- 1 workspace

Recommended

Enterprise
Custom Pricing
BUY NOW
- Starts at 5 users
- Unlimited translations
- Single sign-on
- Advanced user permissions
- Custom NLU support
- Dedicated account management

Meet the team

Adiu is the industry all in one platform standard for the first point of contact for speech therapists to automate patient classification and receive prioritized audio transcription.
Our small but mighty team comes from a diverse background of software, design, and product expertise. We are currently based in Singapore



Hanlin Cheng
Chief Executive Officer

Eva Liu
Chief Product Officer

Jackie Hellsten
Chief Design Officer

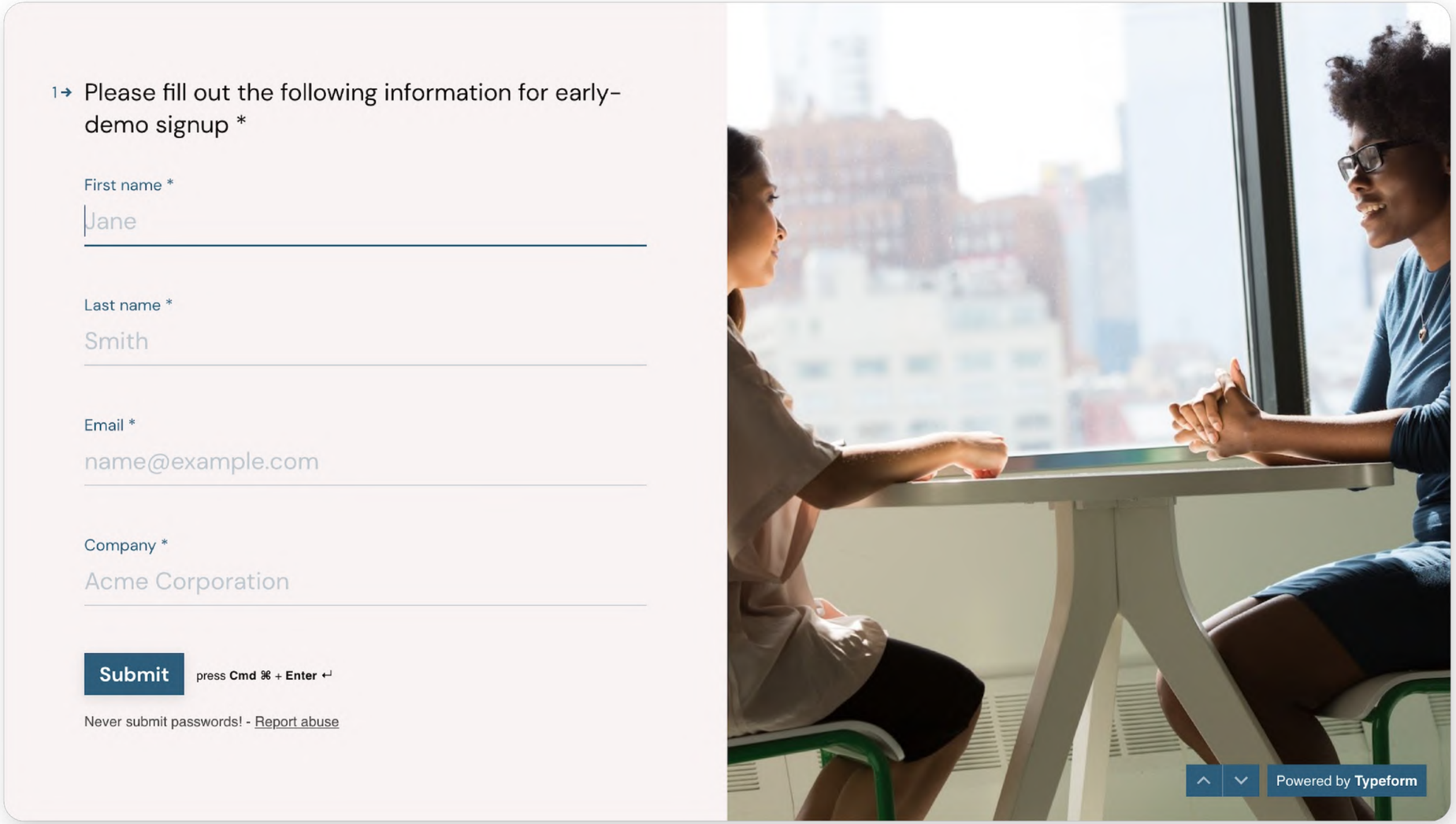
Adharsha Sam
Chief Technology Officer

Company
How it works
Pricing

Quick Link
Pricing

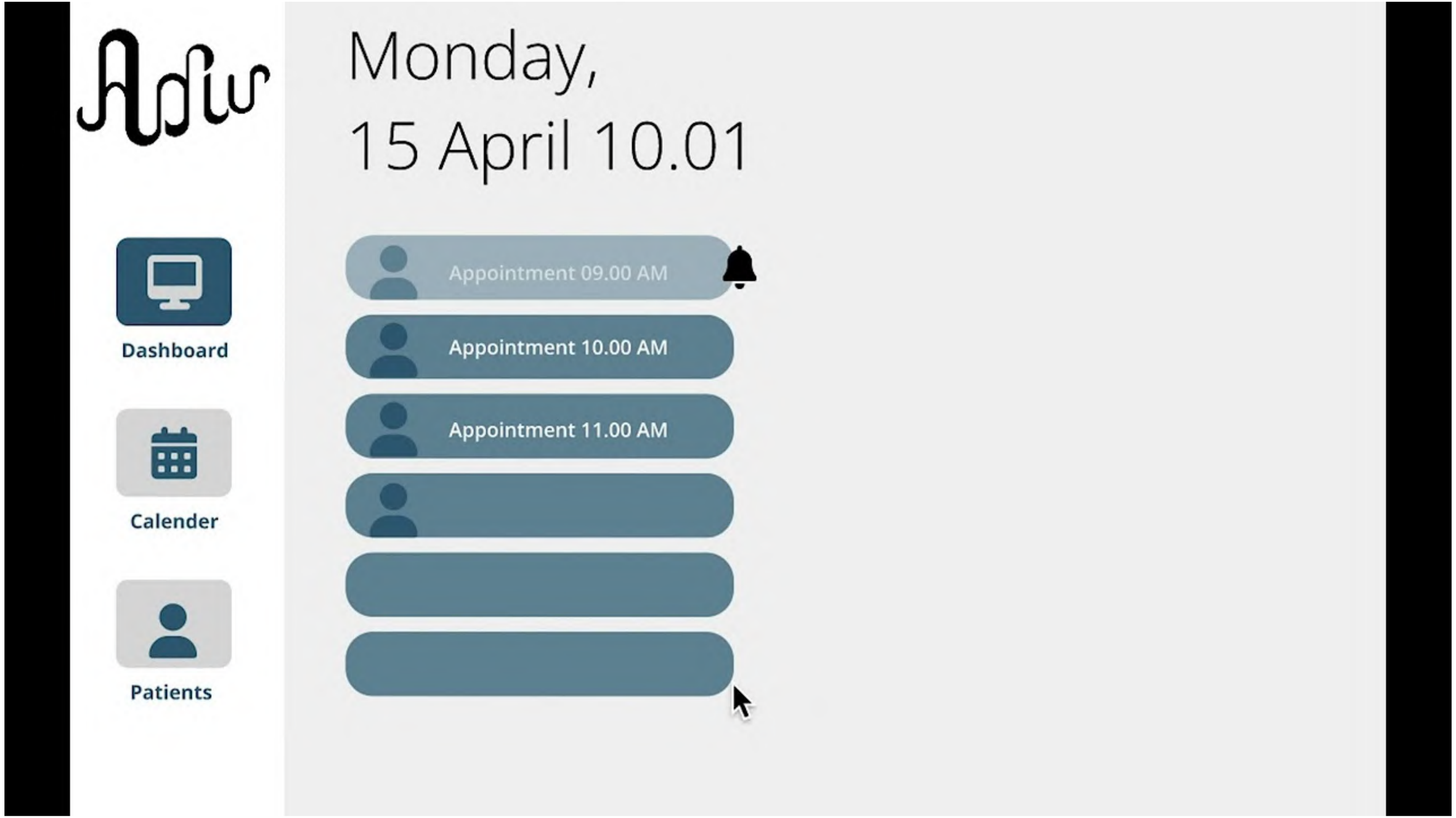
Subscribe
Get product updates

adiu.webflow.io



Early adopter sign-up form

Product Demo Video


Monday,
15 April 10.01
Dashboard
Calender
Patients
Appointment 09.00 AM
Appointment 10.00 AM
Appointment 11.00 AM

Thank you.