

IMT2671 Webprosjekt II

Way In – an application for internship/ bachelor thesis courses

Group 1

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

Agenda

- Introduction
- Background (problemstilling)
- Goals
- Development plan
- Way In
 - Prototype
 - Database
 - Live demo
 - Future Development
- Discussions
- Conclusion

Background

Problems with current solutions

- no clear overview
- manual operation
 - excel sheets
 - e-mails
- time consuming

What should remain as it is today

- Communication itself
- Contact with companies

Goals

- increase efficiency
 - reduce the amount of emails
 - no more excel sheets
- stronger relationship with partner companies

Our Solutions

- Automation of some of the process
 - E-mails to an application form
 - Excel sheets to an database
 - An algorithm to match students and projects
- For Coordinators (with log-in)
 - confirm internship/ project offers
 - overview of companies, projects, and students
 - project history
 - feedback from students
 - email functions and invitations to meetings

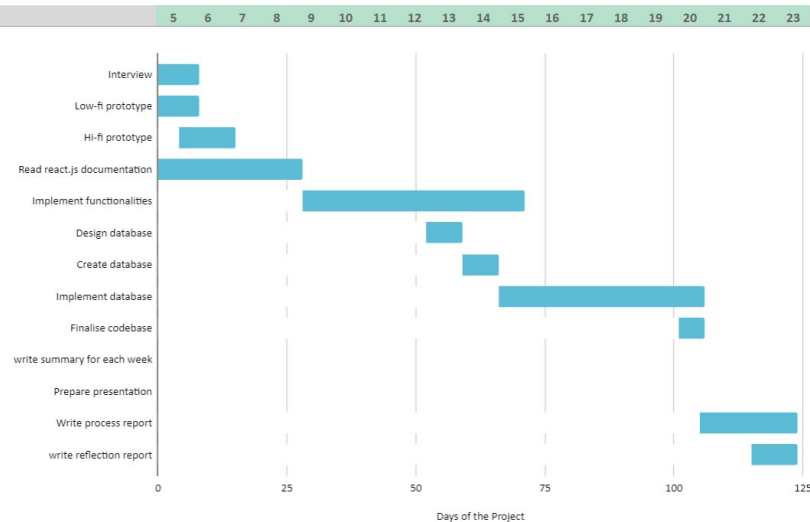
Development plan

- 2 weekly meetings
- Gantt chart template

GANTT CHART TEMPLATE

* = an automatically calculated cell

TASK NAME	START DATE	END DATE	START ON DAY*	DURATION* (WORK DAYS)
First Sample Project				
Interview	31.01	07.02	0	8
Low-fi prototype	31.01	07.02	0	8
Hi-fi prototype	04.02	14.02	4	11
Second Sample Project				
Read react.js documentation	31.01	27.02	0	28
Implement functionalities	28.02	10.04	28	43
Third Sample Project				
Design database	23.03	29.03	52	7
Create database	30.03	05.04	59	7
Implement database	06.04	15.05	66	40
Finalise codebase	11.05	15.05	101	5
Fourth Sample Project				
write summary for each week				
Prepare presentation				
Write process report	15.05	02.06	105	19
write reflection report	25.05	02.06	115	9



Prototyping

Way In Users

Without log-in

- Students
- Companies

With log-in

- Coordinators



Are you a student?

View and apply to an internship or bachelor project here

For companies: Would you like to work with our students?


Please fill in an application form for an internship or bachelor project from here.



User Journey – student applying to internships

Step 1:

View a list of internships and choose up to three internships

WAY IN

Internship

faculty ▼location ▼

Front-End Trainee UtviklerContaAS X

Conta AS søker en Front-End Trainee Utvikler til utvikling av nye og eksisterende nettjenester. Som ...

UX-designer i Digital Banking ServicesEvry

some text about the project, more text about the project, here is some text about the project.

Frontend-utviklere i Digital Banking ServicesEvry

Vil du være med på å forme fremtidens digitale samfunn? Med våre innovative partnerskap...

Nyutdannede utviklere i TrondheimBEKK X

Vi søker nyutdannede utviklere til vårt Trondheimskontor for oppstart i august. Dyktige folk...

Frontend-utviklerCGI

Vi søker nå etter en dyktig frontend-utvikler. Er det deg? CGI ble grunnlagt i 1976 og er verdens...

Java og SQL Backend utviklerEvry

Er du klar for det neste steget? TietoEVRY leter etter tung Java og SQL backend utvikler. Vi søker en ...

Design ResearcherCISCO

We are looking to hire an ambitious Design researcher

Frontend-utviklere i Digital Banking ServicesADD TO LIST

Evry

Stillingsbeskrivelse

Vil du være med på å forme fremtidens digitale samfunn?

Med våre innovative partnerskap og kunder innenfor både offentlig og privat sektor er vi i TietoEVRY med på å forme dagens samfunn og den digitale fremtiden. Er du en av de nytenkende drivkreftene vi ser etter? Hvis ja, så kan vi love deg en fleksibel stilling med høyt tempo som gir deg muligheten til å utvikle deg.

Digital Banking Services er en avdeling i Trondheim med ansvar for utvikling av brukervennlige løsninger som skal brukes av bankenes kunder, som f.eks. nett- og mobilbank. Vi består av over 100 dyktige medarbeidere med høy kompetanse innen produktutvikling, arkitektur, design, UX, prosjektledelse, utvikling og test. Våre løsninger er svært ettertraktet og vi trenger flere folk.

Hvordan vi jobber

Vi har høye ambisjoner, og vi vil være ledende på teknologi. Vi er lidenskapelig opptatt av kreative løsninger, og vi er alltid nysgjerrige på å se hva det neste digitale gjennombruddet blir. Siden teknologien raskt fornyes må vi være smidige, tenke fremover og se løsninger. Vår arbeidsplass karakteriseres av fleksibilitet, noe som gir deg muligheten til å påvirke når og hvor du jobber. Stillingen som Frontend-utvikler omfatter blant annet:


Delta i Scrum-team som utvikler nye løsninger for våre kunder

NEXT ▶

User Journey – student applying to Internship

Step 2:

Rearrange the order of preferences



The screenshot shows a web interface for a student applying to an internship. The header is a light blue bar with a logo on the left and the text 'WAY IN Internship' on the right. Below the header, the text 'Drag and drop your choices in order of preference' is displayed. There are three preference items, each in a light blue box with a list of bullet points on the left and a company name on the right. The items are: 1. Front-End Trainee Utvikler (ContaAS), 2. UX-designer i Digital Banking Services (Evry), and 3. Nyutdannede utviklere i Trondheim (BEKK). At the bottom right, there is a 'NEXT' button with a right-pointing arrow.

WAY IN
Internship

Drag and drop your choices in order of preference

- Front-End Trainee Utvikler ContaAS
- Conta AS søker en Front-End Trainee Utvikler til utvikling av nye og eksisterende nettsjenester. Som ...
- UX-designer i Digital Banking Services Evry
- some text about the project, more text about the project, here is some text about the project.
- Nyutdannede utviklere i Trondheim BEKK
- Vi søker nyutdannede utviklere til vårt Trondheimskontor for oppstart i august. Dyktige folk...

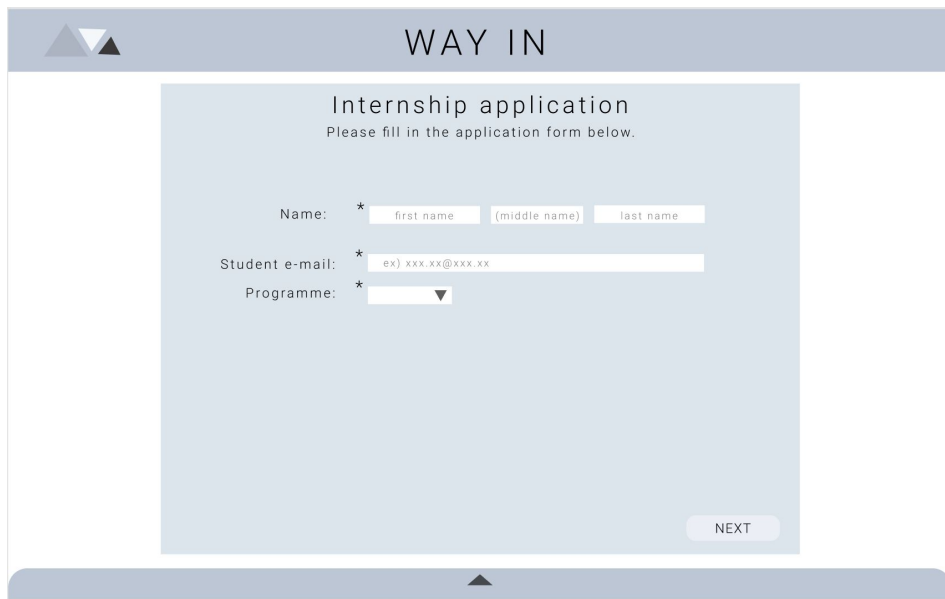
NEXT ►

User Journey – student applying to Internship

Step 3:

fill in the application form

(only “@stud.ntnu.no” is accepted)



The screenshot shows a web interface for an internship application. At the top, a dark blue header contains a logo of three triangles and the text 'WAY IN'. Below the header, a light blue box contains the title 'Internship application' and the instruction 'Please fill in the application form below.' The form fields are as follows:

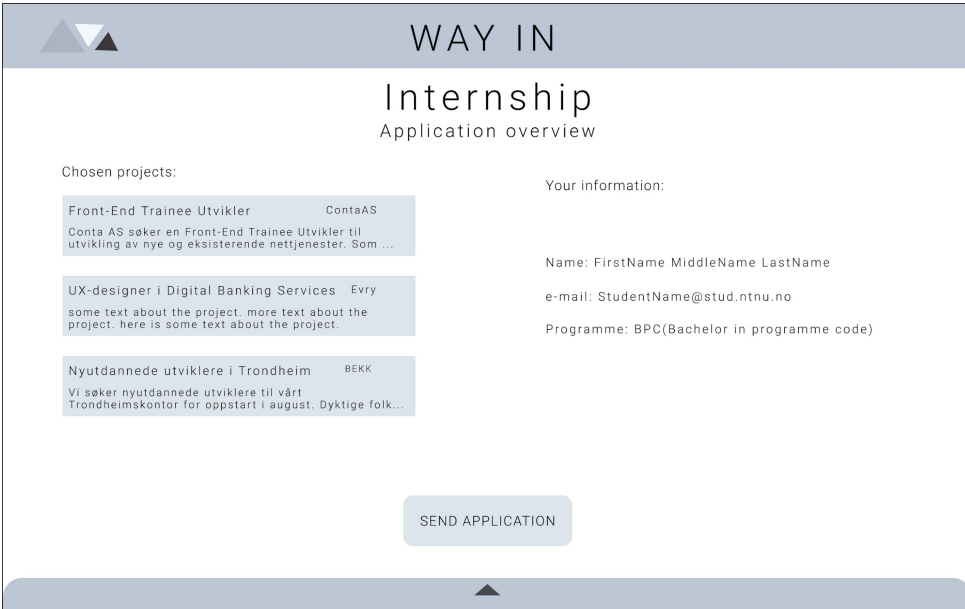
- Name:** A required field (*) with three sub-inputs: 'first name', '(middle name)', and 'last name'.
- Student e-mail:** A required field (*) with a placeholder example 'ex) xxx.xx@xxx.xx'.
- Programme:** A required field (*) represented by a dropdown menu.

A 'NEXT' button is located at the bottom right of the form area. The entire interface is framed by a dark blue border with a small upward-pointing triangle at the bottom center.

User Journey – student applying to Internship

Step 4:

confirm all the information is correct and submit



The mockup shows a web form titled 'WAY IN Internship Application overview'. It features a header with a logo and the title. The main content is divided into two columns. The left column, 'Chosen projects:', lists three projects: 'Front-End Trainee Utvikler' by 'ContaAS', 'UX-designer i Digital Banking Services' by 'Evry', and 'Nyutdannede utviklere i Trondheim' by 'BEKK'. Each project has a brief description. The right column, 'Your information:', contains fields for 'Name' (FirstName MiddleName LastName), 'e-mail' (StudentName@stud.ntnu.no), and 'Programme' (BPC(Bachelor in programme code)). A 'SEND APPLICATION' button is located at the bottom right.

WAY IN

Internship

Application overview

Chosen projects:

Front-End Trainee Utvikler ContaAS

Conta AS søker en Front-End Trainee Utvikler til utvikling av nye og eksisterende netjtjenester. Som ...

UX-designer i Digital Banking Services Evry

some text about the project. more text about the project. here is some text about the project.

Nyutdannede utviklere i Trondheim BEKK

Vi søker nyutdannede utviklere til vårt Trondheimskontor for oppstart i august. Dyktige folk...

Your information:

Name: FirstName MiddleName LastName


e-mail: StudentName@stud.ntnu.no

Programme: BPC(Bachelor in programme code)

SEND APPLICATION

User Journey – company offers an internship

- Only companies in partner relationship can use the form
- They will get a company ID from coordinators once they reach an agreement



WAY IN

Internship Offer Application

Please fill in the application form below.

Company name: *

A contact person: *

Phone number: *

E-mail address: *

Project name: *

Project duration: ☒ Less than 6 month ☐ More than 6 month

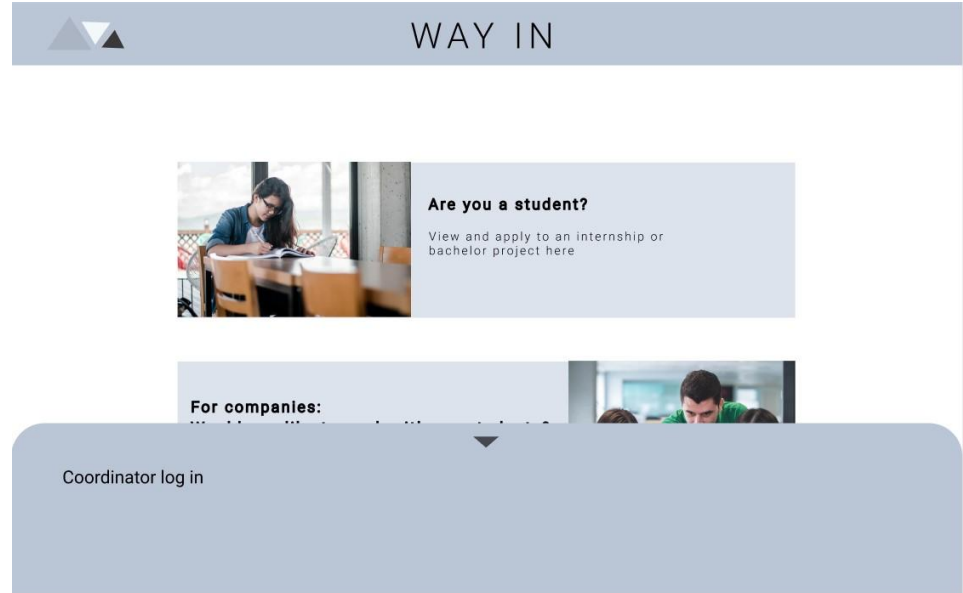
Project start: ▼

Project description:

NEXT

Coordinator – log in

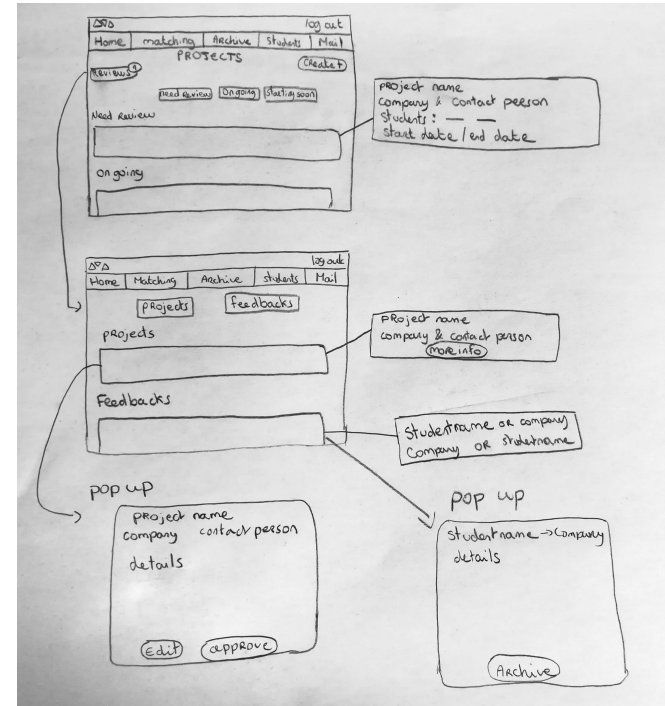
- Coordinators needs to authenticate themselves to get extra features
- Log in found in the footer



Coordinator – Project Overview

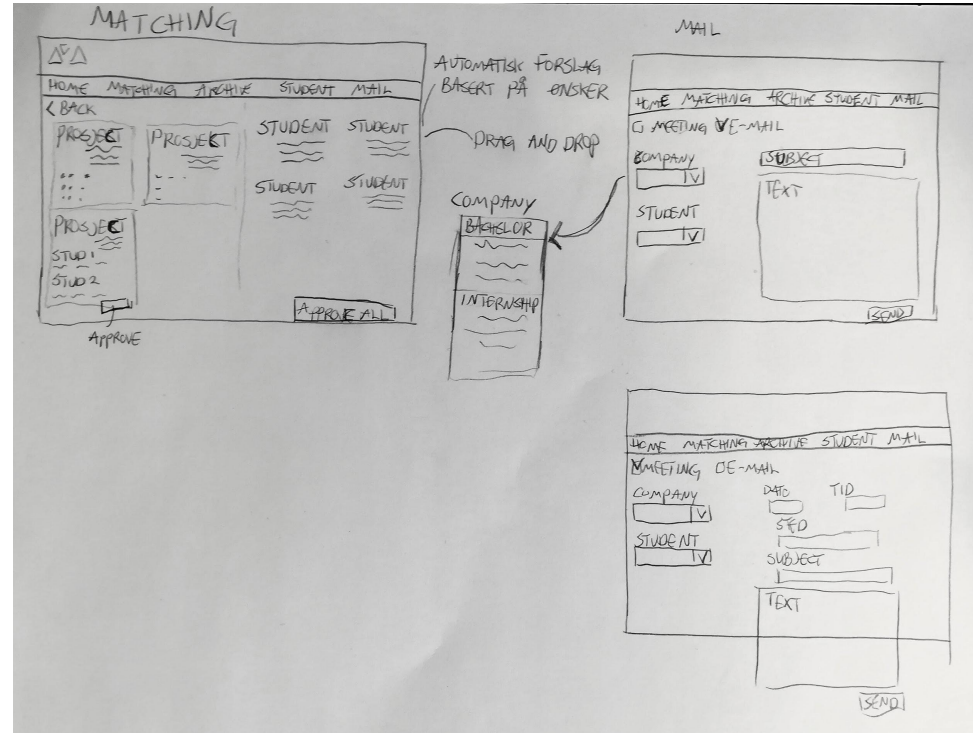
After logged in

- an overview of projects
- notification for new offers
- coordinators accept, deny, or edit internship/ project offers



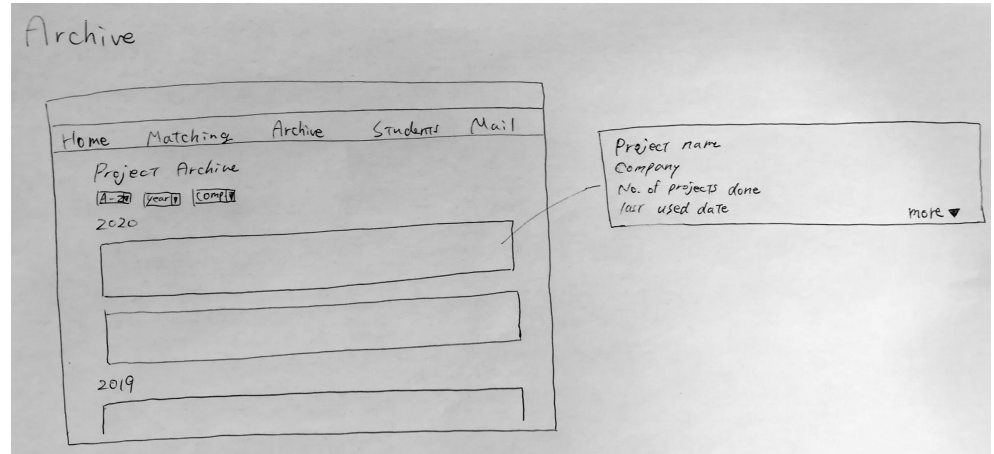
Coordinator – Matching & Mail

- simple algorithm that matches students and projects based on preferences
- coordinators can manually edit this



Coordinator – Project Archive

- projects in chronological order
- can be filtered by alphabet, year, and company



Coordinator – Student list

- List of students registered in the course
- Sorted as
 - those who have projects
 - those who have applied but not yet have projects
 - and those who haven't applied

Mail function (Student list)

e-mail about giving feedback → automatic

Sending e-mail about a specific project → mail to contact person for the project
(Send from ongoing project or company list)

Sending e-mail to students → from ongoing project or past project
(former)

who are registered in courses (if student is ~~not~~ assigned to a project)
all the students ~~registered?~~ (if they don't have an account, if NOT → send mail from the student list
who should be in the system?)

↓

Students in projects		
name Study program, år	Project name / company Tlf. _____ mail: _____	
_____	_____	_____
NOT matched		
_____	_____	_____
No activities		
_____	_____	_____

WCAG

Colour Contrast Analyser (CCA)

Colour Contrast Analyser (CCA) Edit View Development

Foreground colour

HEX #D0DEEB

Background colour (black)

HEX #000000

Sample preview

example text showing contrast

WCAG 2.1 results

Contrast ratio 15.3:1

1.4.3 Contrast (Minimum) (AA)

Pass (regular text) Pass (large text)

1.4.6 Contrast (Enhanced) (AAA)

Pass (regular text) Pass (large text)

1.4.11 Non-text Contrast (AA)

Pass (UI components and graphical objects)

Way In

Apply for an internship

View and apply to an internship

Colour Contrast Analyser (CCA)

Colour Contrast Analyser (CCA) Edit View Development

Foreground colour (white)

HEX #FFFFFF

Background colour

HEX #798EA7

RGB HSL HSV

Synchronize colour values

Red 121

Green 142

Blue 167

Sample preview

example text showing contrast

WCAG 2.1 results

Contrast ratio 3.4:1

1.4.3 Contrast (Minimum) (AA)

Fail (regular text) Pass (large text)

1.4.6 Contrast (Enhanced) (AAA)

Fail (regular text) Fail (large text)

1.4.11 Non-text Contrast (AA)

Pass (UI components and graphical objects)

Submit

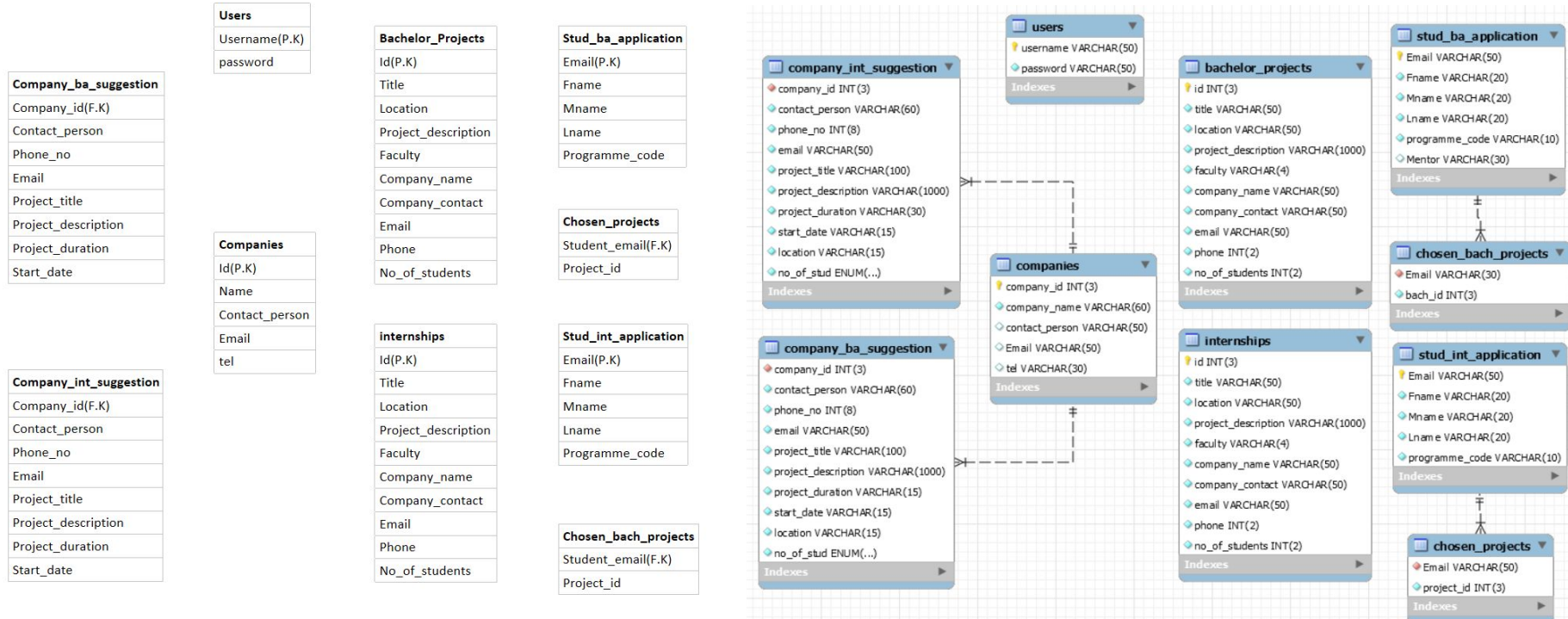
Submit



- Component-based

```
way-in > src > components > JS footer.js > ...
1  import React from 'react';
2  import arrow from '../pictures/footerArrow.png';
3  import { Link } from 'react-router-dom';
4
5  class Footer extends React.Component {
6    state = {
7      isFooterVisible: false,
8      isLoggedIn: false
9    }
10
11    componentDidMount() {
12      if(this.props.isLoggedIn != ""){ //If a prop is passed change state
13        this.setState({ isLoggedIn: this.props.isLoggedIn });
14      }
15    }
16
17    toggleFooter = () => { //changes state when footer is toggled
18      this.setState(prevState => ({ isFooterVisible: !prevState.isFooterVisible }));
19    };
20
21    logout() { //clears sessionStorage upon logout
22      sessionStorage.setItem("userData", "");
23      sessionStorage.clear();
24    }
25
26    render() {
27      const { isFooterVisible } = this.state;
28      let button;
29
30      if(this.state.isLoggedIn != true){ //changes button to log out or log in depending on state
31        button = <Link to="/loginPage" className={` ${isFooterVisible ? "open" : "closed"} `}>Log in</Link>;
32      } else if(this.state.isLoggedIn == true){
33        button = <Link to="/loginPage" onClick={this.logout} className={` ${isFooterVisible ? "open" : "closed"} `}>Log out</Link>;
34      }
35
36      return ( // class of footer and items inside change depending on state
37        <footer onClick={this.toggleFooter} onPress={this.toggleFooter} className={` ${isFooterVisible ? "open" : "closed"} `} tabIndex="0">
38          <img src={arrow} alt="" className={` ${isFooterVisible ? "open" : ""} `}/></img>
39          <div>
40            {button}
41          </div>
42        </footer>
43      );
44    }
45  }
46
47  export default Footer;
```

Database



Live demo – Way In

Way In

- Currently way in:
- allows students to apply to bachelor projects and internships
- allows companies to send project suggestions
- allows a coordinator to view an overview of the currently registered companies

Future Development

- Implementation of missing features
 - students arrange project order
 - admin functionalities
- Improve security
 - Application form for companies can still be misused by using random ID

Future Development

- More interviews and several rounds of user testing
- Long-term user testing might be needed as well

Conclusion

Several useful features have been developed, but much is still missing for any potential use.

