IMT2671 Webprosjekt II
Way In – an application for internship/ bachelor thesis courses

Group 1

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
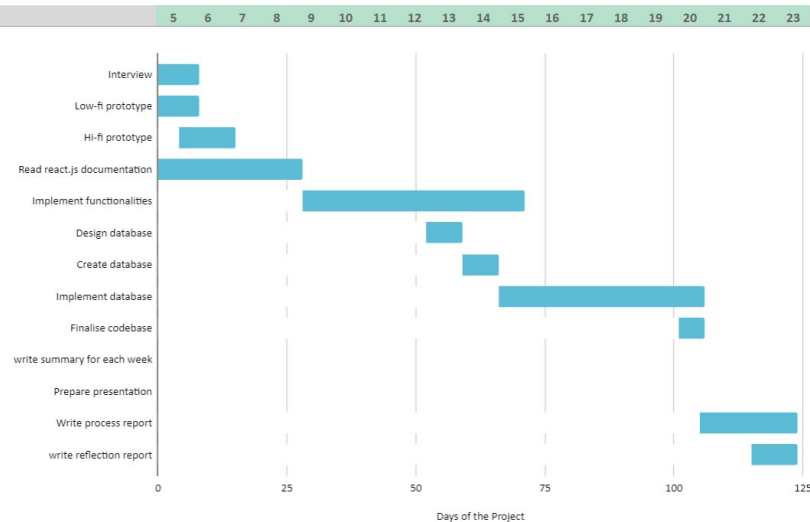
Prototyping

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

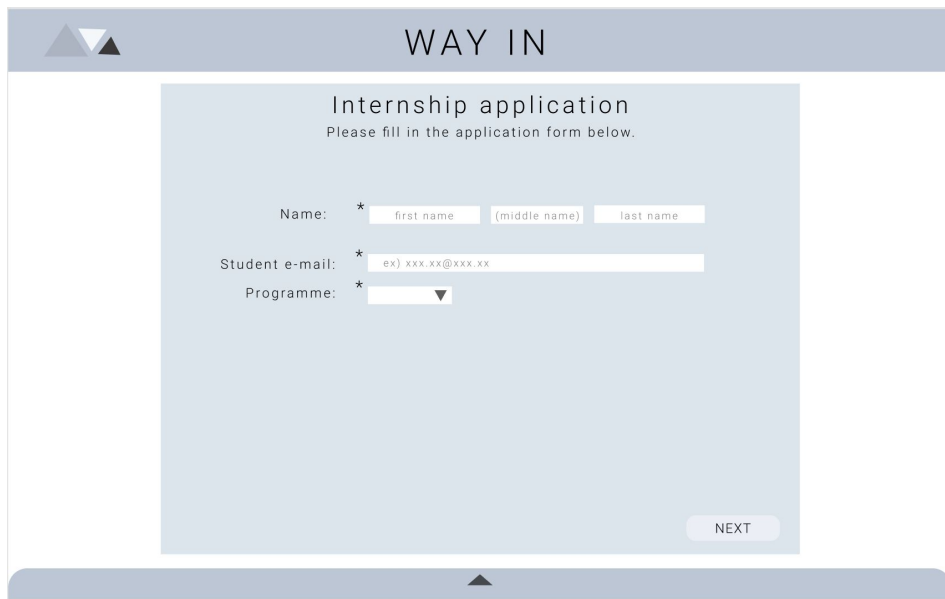# User Journey – student applying to Internship

Step 2:

Rearrange the order of preferences

User Journey – student applying to Internship

Step 3:

fill in the application form
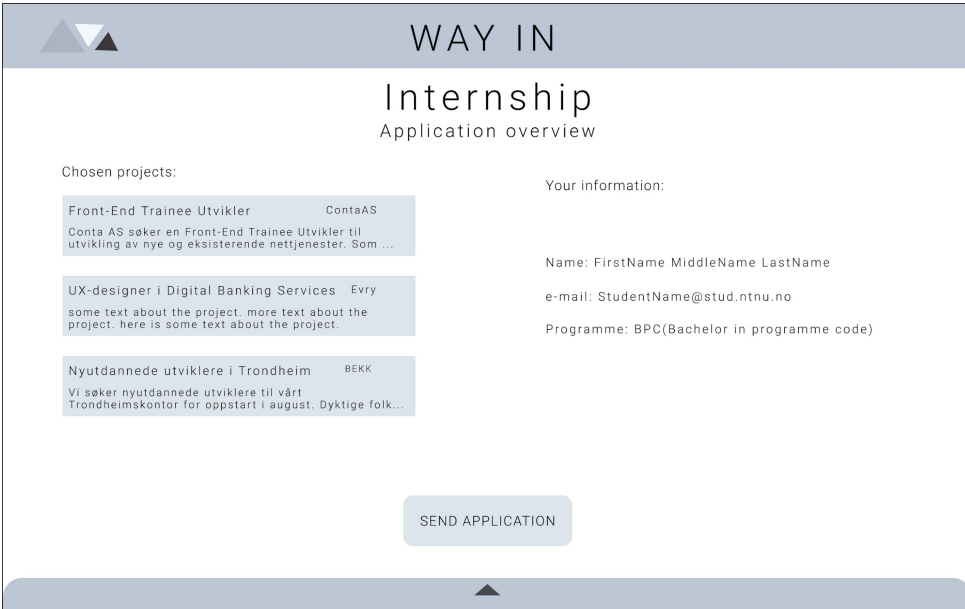
(only "@stud.ntnu.no" is accepted)

User Journey – student applying to Internship

Step 4:

confirm all the information is correct and submit

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

Coordinator – log in

- Coordinators needs to authenticate themselves to get extra features
- Log in found in the footer
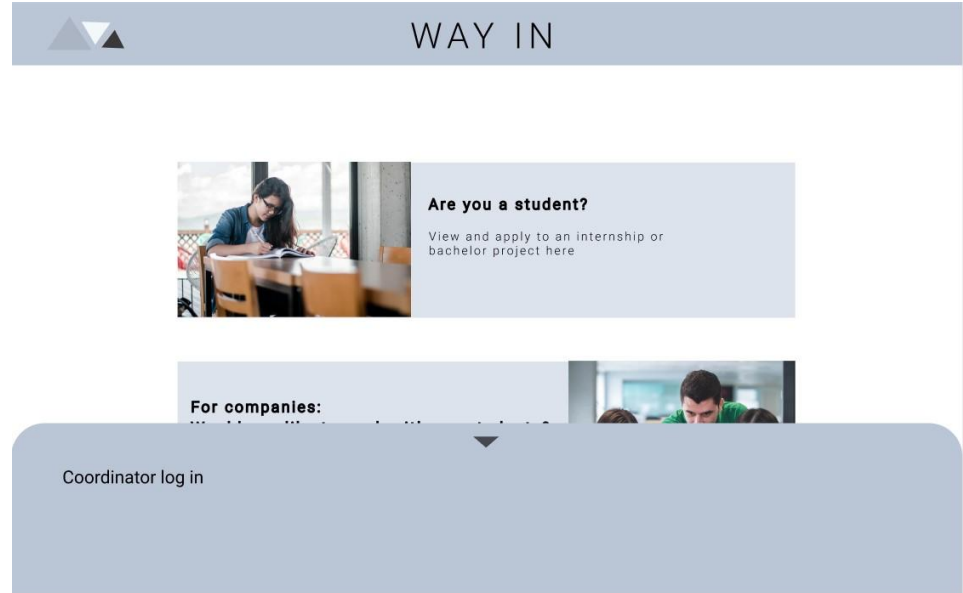
Coordinator – Project Overview

After logged in

- an overview of projects
- notification for new offers
- coordinators accept, deny, or edit internship/ project offers
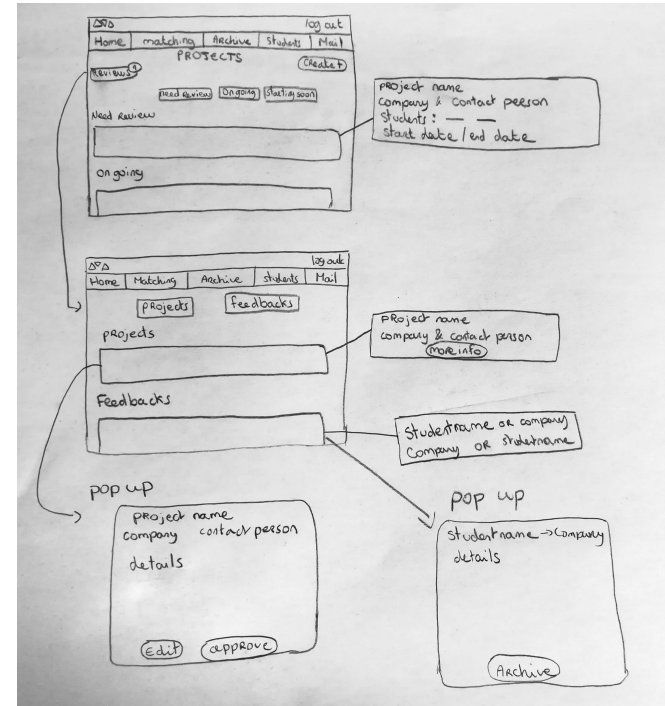
Coordinator – Matching & Mail

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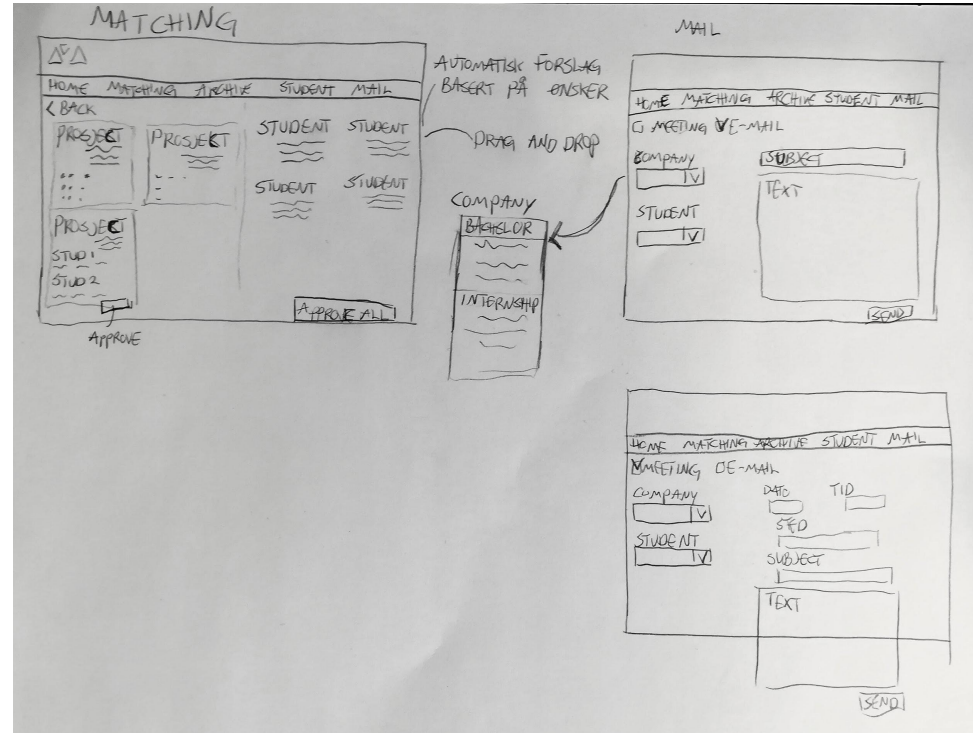
Coordinator – Project Archive

- projects in chronological order
- can be filtered by alphabet, year, and company
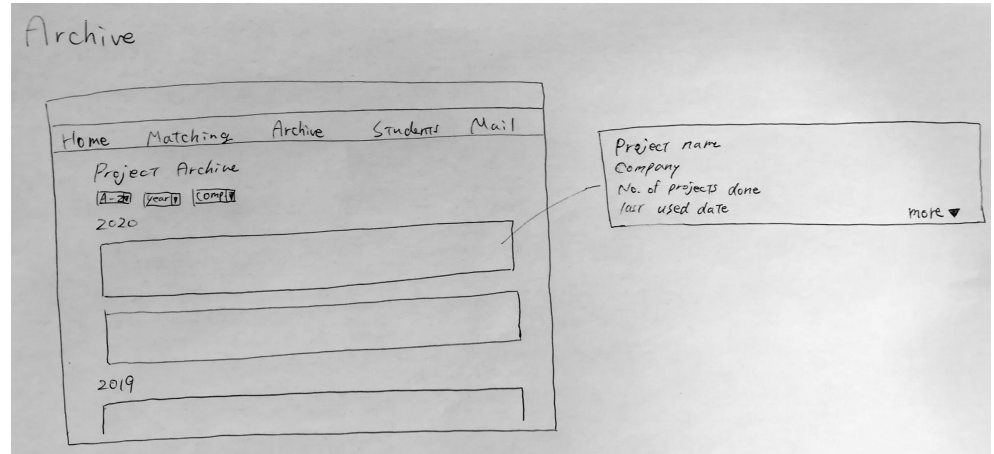
Coordinator – Student list

- 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

WCAG

React

- 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} onKeyPress={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

Users
Username(P.K)
password

Bachelor_Projects
Id(P.K)
Title
Location
Project_description
Faculty
Company_name
Company_contact
Email
Phone
No_of_students

Stud_ba_application
Email(P.K)
Fname
Mname
Lname
Programme_code

Company_ba_suggestion
Company_id(F.K)
Contact_person
Phone_no
Email
Project_title
Project_description
Project_duration
Start_date

Companies
Id(P.K)
Name
Contact_person
Email
tel

Chosen_projects
Student_email(F.K)
Project_id

internships
Id(P.K)
Title
Location
Project_description
Faculty
Company_name
Company_contact
Email
Phone
No_of_students

Stud_int_application
Email(P.K)
Fname
Mname
Lname
Programme_code

Company_int_suggestion
Company_id(F.K)
Contact_person
Phone_no
Email
Project_title
Project_description
Project_duration
Start_date

Chosen_bach_projects
Student_email(F.K)
Project_id

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.