# Application development for vinification and winemaking (temperature control)





## Project presentation

- Application development for fermentation tank temperature control using available temperature data in vinification and winemaking
- The use of this application enables the user to control the temperature of the tank and that of its content
- By using this application the user (i.e. the winemaker) can get and alter available temperature data via a graphic user platform.

# Project goals

- soft and transversal skills development
- development of logical thinking and complex application of the acquired knowledge
- formation of systematic and complex attitude
- project work and team cooperation
- experience via real-life tasks

#### Main phases and activities

- Introduction into vinification and winemaking; understanding procedures
- Surveying, analysis and documentation of customer requirements
- 3. Design (e.g. visual items, graphic platform etc.)
- 4. Implementation
- 5. Testing
- 6. Documentation
- 7. Product presentation and evaluation
- 8. Evaluation of students, experience exchange

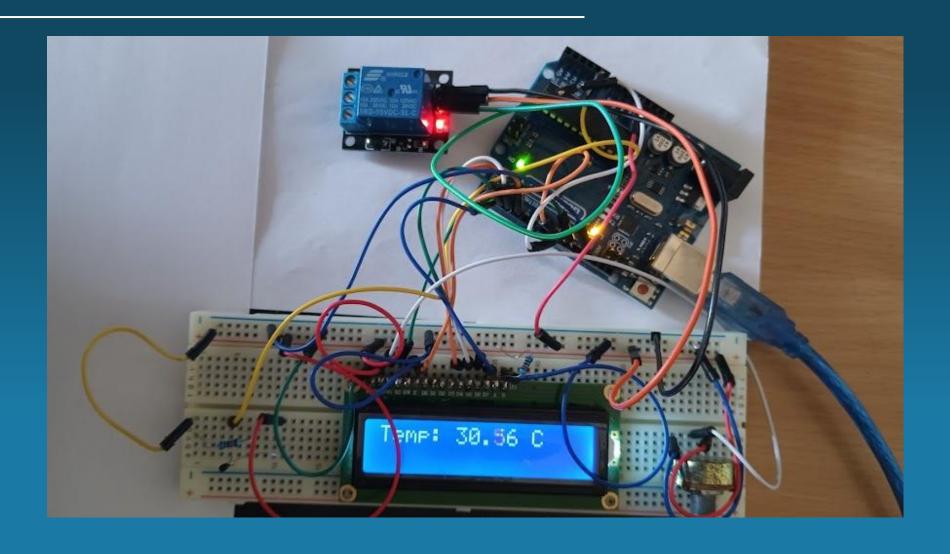


#### Moodle





# Ardunio



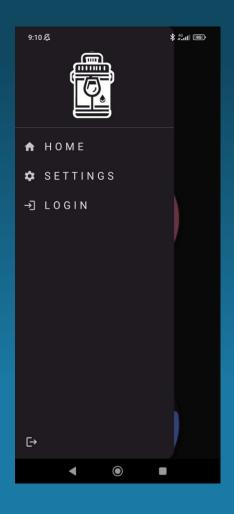
# The program made in python

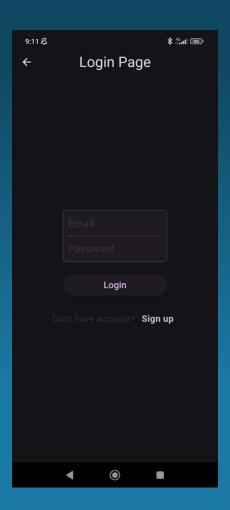


## Plans, created in Figma



## **Future prototype**







### Application phases





```
### data-bs-theme="dark">

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### chead

| fink href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet cscript src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js" integrity=

#### clink href="sign-in.css" rel="stylesheet">

### clink href="sign-in.css" rel="stylesheet">
```



#### Further development of the project

- Controlling other appliances
- Settings between tanks
- Graphic development
- Platform extension on a website platform:
   Django framework

```
from django.contrib.auth.decorators import login required
@login_required(login_url='login')
 ief terulet(request):
    if request.method == "POST":
        b = request.POST.get("b")
@login_required(login_url='login')
def rolunk(request)
   return render(request, "rolunk.html", {"active" : "rolunk"})
@login required(login url='login')
def feladat(request)
   return render(request, "feladat.html", {"active" : "feladat"})
@login_required(login_url='login')
     return render(request, "kapcsolat.html", {"active" : "kapcsolat"})
        username = request.POST.get("username"
        password = request.POST.get("password")
        print(password, username)
        acc = authenticate(request=request, username=username, password=password)
           login(request, acc)
           return redirect("home")
           return render(request, 'login.html', {'error message': 'Nem jó a felhasználónév vagy a jelszó!'})
@login_required(login_url='login')
```

## Short video about our work



#### Our achievement and experience

- Project design
- Team work, cooperation
- Real-life task solution, problem management
- Meeting deadlines
- Creativity





#### Thank you for your attention!

