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Web-Development final project

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Overview:

The main goal of our project is to create a platform for the organization and management of schedules and events in any educational centers, small specialized schools or educational institutions.

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We also observed common problem in many students, that students could not find free rooms to study due to absence of study rooms in our university.

Our project for managing university and educational centers' rooms would be a comprehensive system designed to help academic institutions manage their facilities effectively.

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Presentation plan:

Frontend:

- Admin page
- Tutor page
- Student page

Backend:

- Models
- Serializers
- Views

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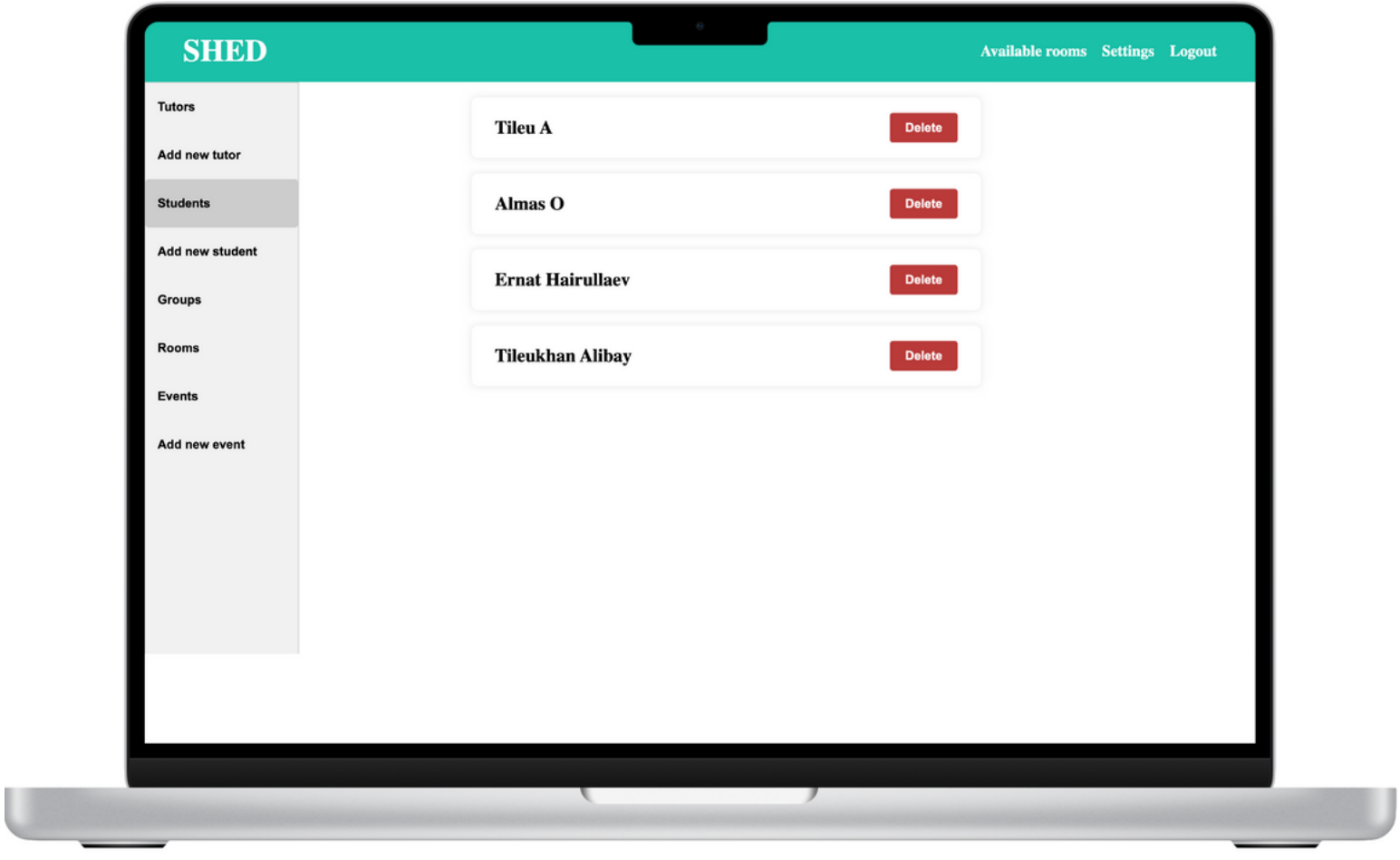
Admin page: Students



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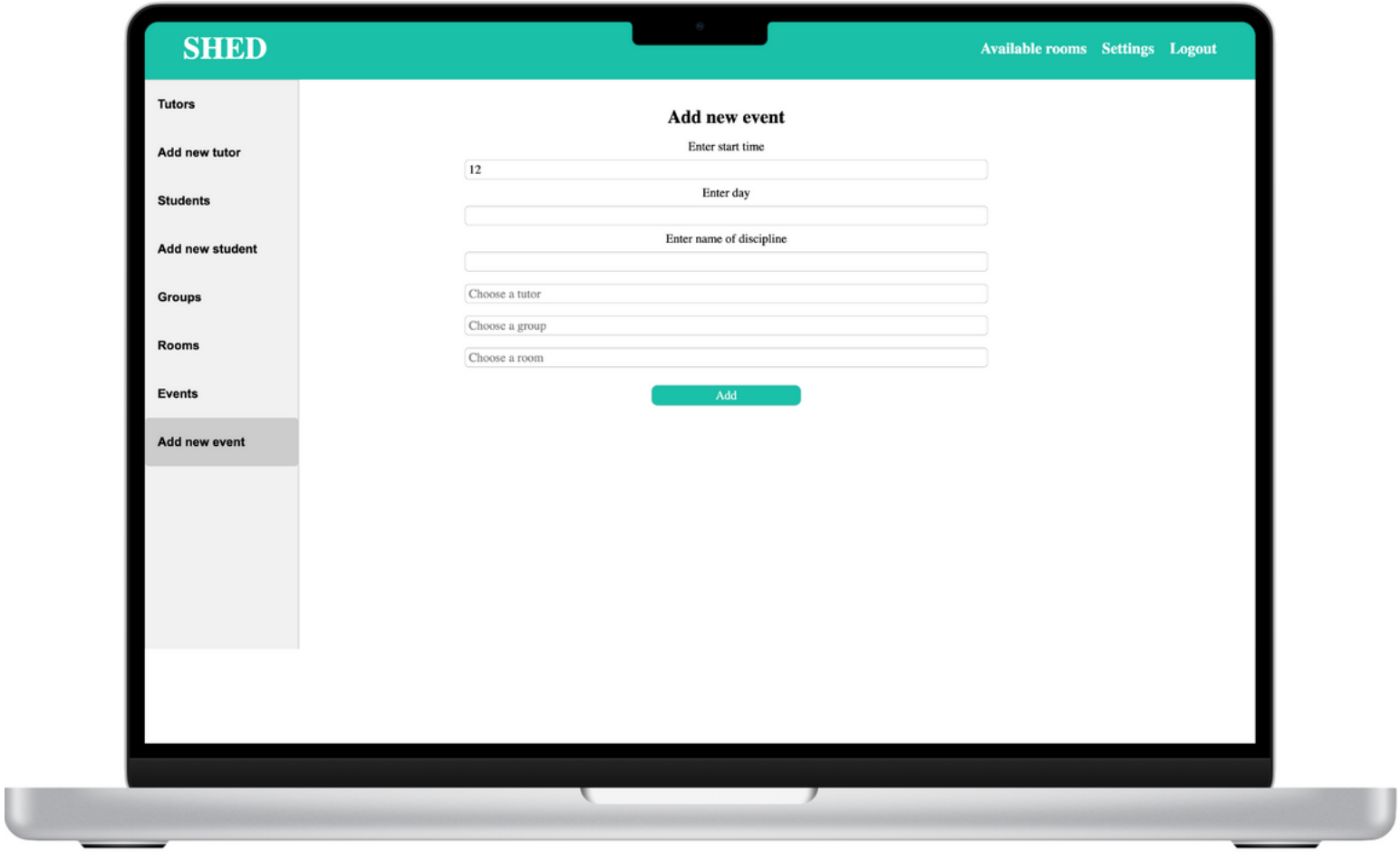
Admin page: Add new Events



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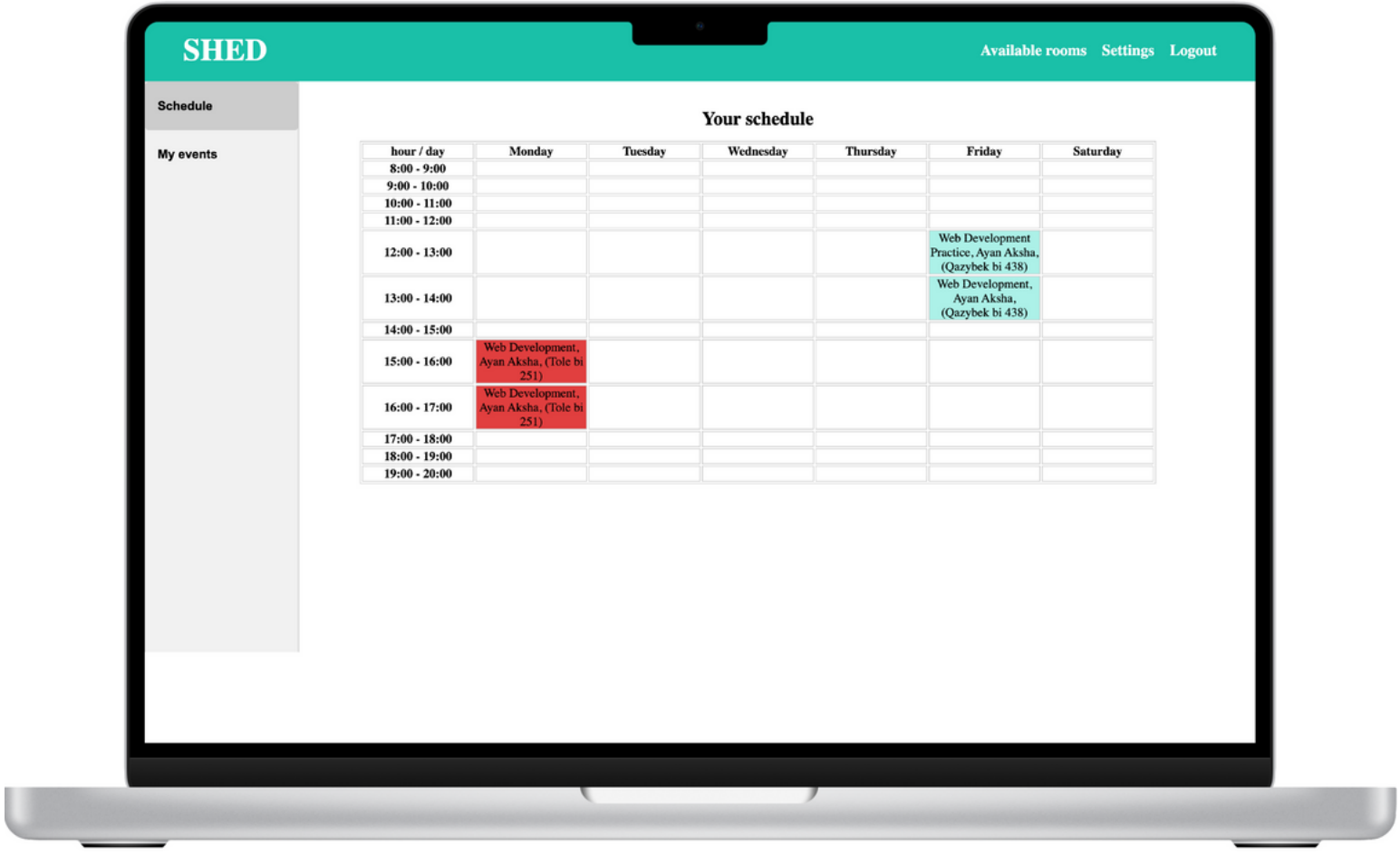
Tutor page: Schedule



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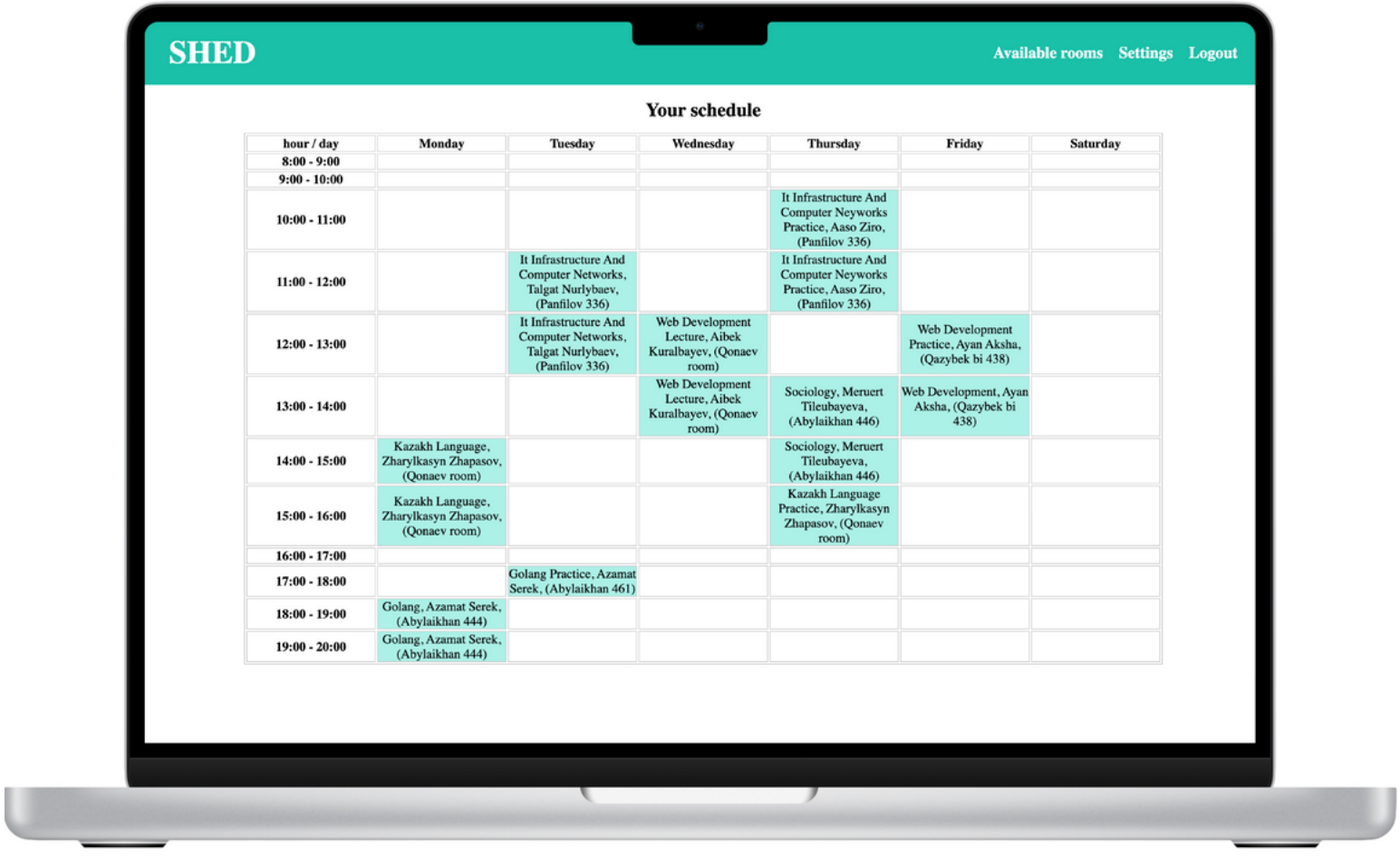
Student page: Schedule



hour / day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00 - 9:00						
9:00 - 10:00						
10:00 - 11:00				It Infrastructure And Computer Neyworks Practice, Aaso Ziro, (Panfilov 336)		
11:00 - 12:00		It Infrastructure And Computer Networks, Talgat Nurlybaev, (Panfilov 336)		It Infrastructure And Computer Neyworks Practice, Aaso Ziro, (Panfilov 336)		
12:00 - 13:00		It Infrastructure And Computer Networks, Talgat Nurlybaev, (Panfilov 336)	Web Development Lecture, Aibek Kuralbayev, (Qonaev room)		Web Development Practice, Ayan Aksha, (Qazybek bi 438)	
13:00 - 14:00			Web Development Lecture, Aibek Kuralbayev, (Qonaev room)	Sociology, Meruert Tileubayeva, (Abylaikhan 446)	Web Development, Ayan Aksha, (Qazybek bi 438)	
14:00 - 15:00	Kazakh Language, Zharylkasyn Zhapasov, (Qonaev room)			Sociology, Meruert Tileubayeva, (Abylaikhan 446)		
15:00 - 16:00	Kazakh Language, Zharylkasyn Zhapasov, (Qonaev room)			Kazakh Language Practice, Zharylkasyn Zhapasov, (Qonaev room)		
16:00 - 17:00						
17:00 - 18:00		Golang Practice, Azamat Serek, (Abylaikhan 461)				
18:00 - 19:00	Golang, Azamat Serek, (Abylaikhan 444)					
19:00 - 20:00	Golang, Azamat Serek, (Abylaikhan 444)					

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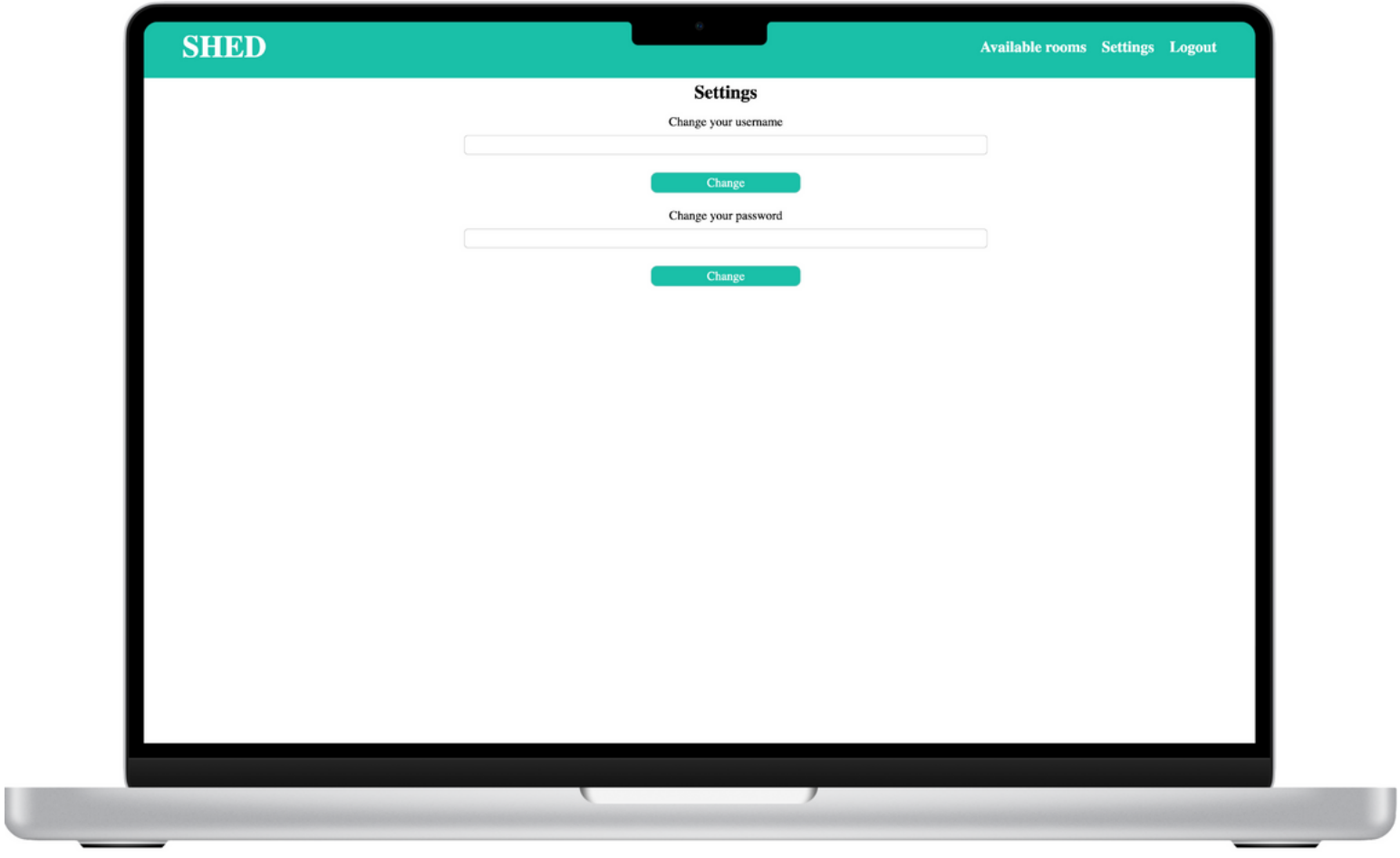
Student page: settings



Next part is

BACKEND

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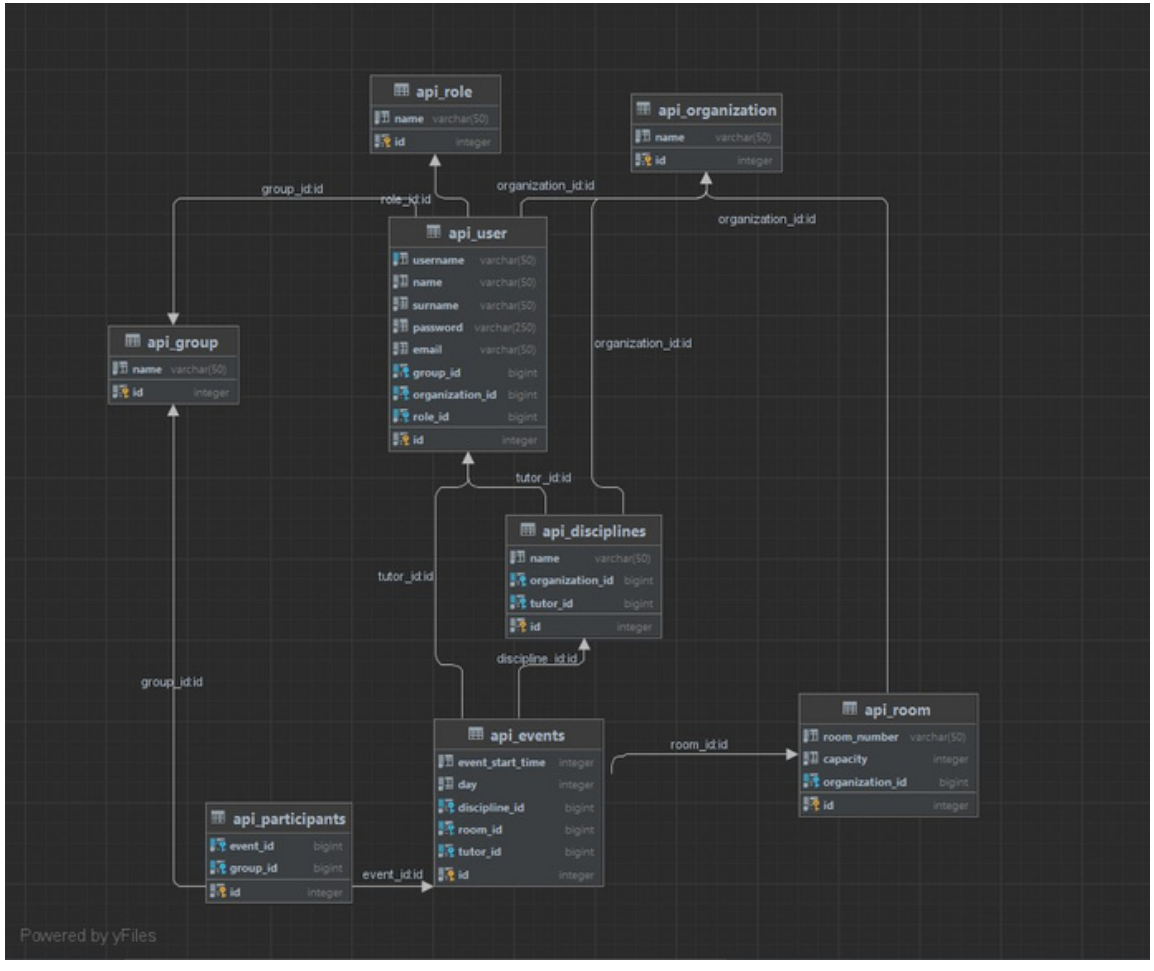
Database Scheme

In our project we have
4 main models,
they are:

- User(Admin, Student, Tutor)
- Events
- Organizations
- Rooms



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JSON Web Token(JWT)

When client autenticate to web page, system automatically gives him JWT token

```python
class LoginView(APIView):
    Almas Orazgaliev <almas orazgaliev> +1
    def post(self, request):
        username = request.data['username']
        password = request.data['password']
        user = User.objects.get(username=username)
        if user is None:
            raise AuthenticationFailed('user not found')

        if not user.check_password(password):
            raise AuthenticationFailed('incorrect password')

        payload = {
            'user_id': user.id,
            'username': user.username,
            'role': user.role.name,
            'org_id': user.organization.id,
            'exp': datetime.datetime.utcnow() + datetime.timedelta(minutes=30)
        }
        token = jwt.encode(payload, settings.SECRET_KEY, algorithm='HS256').decode('utf-8')
        return Response({
            'user_id': user.id,
            'role': user.role.name,
            'org_id': user.organization.id,
            'token': token
        })
```

Features:

- Available rooms
- Email mailing list
- Tutor cancelling lessons

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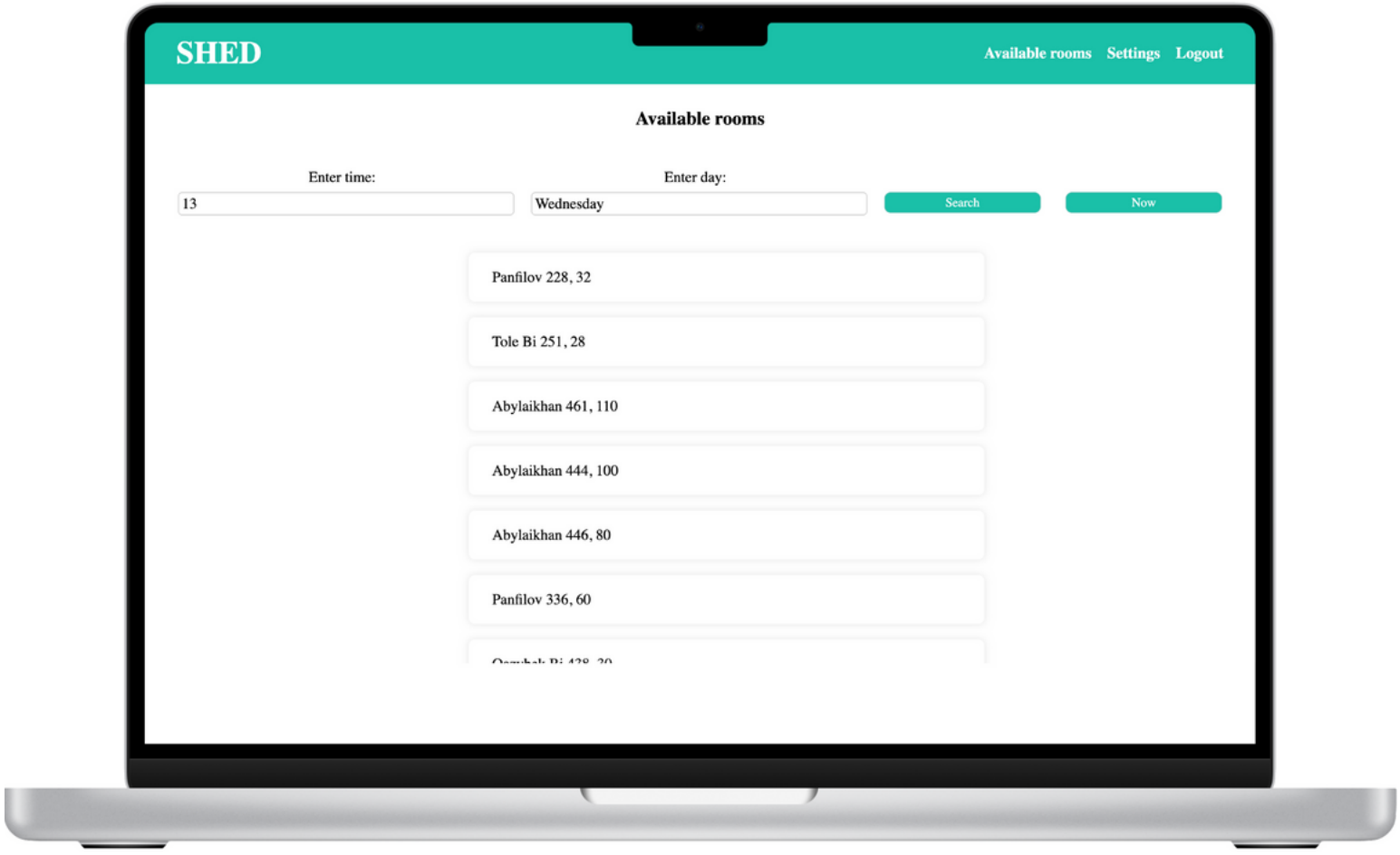
Available rooms



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When registering student/tutors to web-site, system will automatically generate username(based on name, surname) and random password and will send it to user's email post

```
def send_email(to_email, msg):
    EMAIL_HOST = settings.EMAIL_HOST
    EMAIL_PORT = settings.EMAIL_PORT
    EMAIL_HOST_USER = settings.EMAIL_HOST_USER  # SHED_team@gmail.com
    EMAIL_HOST_PASSWORD = settings.EMAIL_HOST_PASSWORD

    smtp_server = smtplib.SMTP(EMAIL_HOST, EMAIL_PORT)
    smtp_server.starttls()
    smtp_server.login(EMAIL_HOST_USER, EMAIL_HOST_PASSWORD)

    from_email = EMAIL_HOST_USER
    smtp_server.sendmail(from_email, to_email, msg)
```

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Tutor can cancel/activate a lesson