

# SDU Dormitory



# Project Team



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# Why did we choose dormitory of SDU?

Since we lived in a dormitory, we saw a problem with the settlement of students. Those who pre-registered arrived late, and the registered place was taken by others. This led to various misunderstandings. And we wanted to fix it.

# History of our project



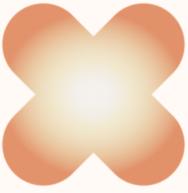
First of all we  
made an  
approximate  
design



Then we  
created a  
Diagram and  
wrote all  
models



Then moved on  
to the booking ,  
sign-up/sign-in  
logic and etc



We used  
decorators for  
user's  
permissions

# Diagram of Models

```
class Student(models.Model):
    user = models.OneToOneField(User, null=True, on_delete=models.CASCADE)
    phone = models.CharField('Phone', max_length=13, null=True, blank=True)
    gender = models.CharField('Gender', choices=GENDER, max_length=50, null=True, blank=True)
    course = models.IntegerField('Course year', choices=COURSE, null=True, blank=True)
    faculty = models.CharField('Faculty name', choices=FACULTY, max_length=50, null=True, blank=True)

    def __str__(self):
        return str(self.user)

    def save(self, **kwargs):
        super(Student, self).save(**kwargs)

class Block(models.Model):
    block_name = models.CharField('Block name', max_length=50)

    def __str__(self):
        return str(self.block_name) + ' block'

    class Meta:
        ordering = ('block_name', )

class Floor(models.Model):
    floor_number = models.IntegerField('Floor number')

    def __str__(self):
        return str(self.floor_number) + ' floor'

    class Meta:
        ordering = ('floor_number', )
```

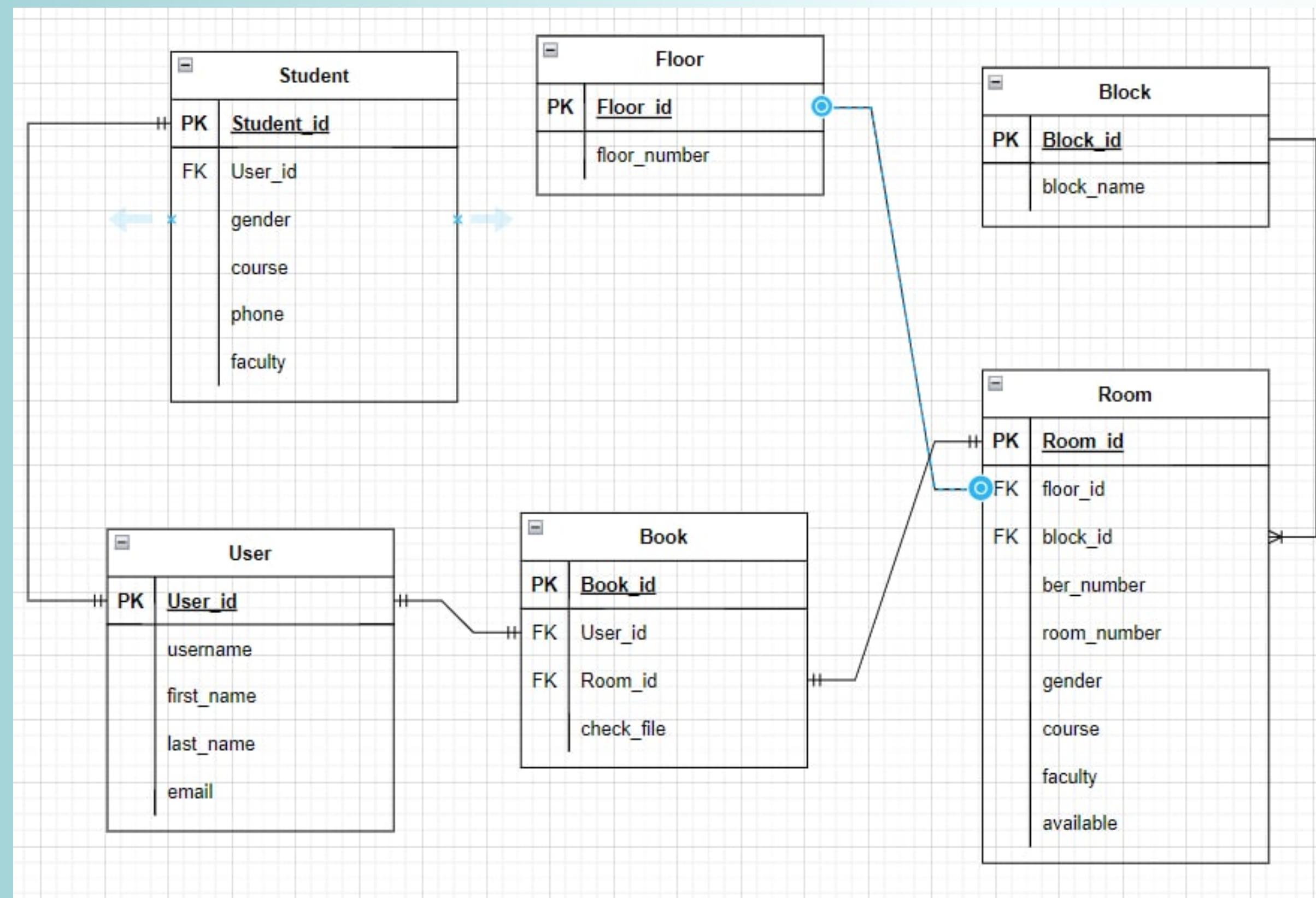
```
class Room(models.Model):
    bed_number = models.IntegerField('Bed number')
    room_number = models.IntegerField('Room number')
    floor = models.ForeignKey(Floor, on_delete=models.CASCADE)
    block = models.ForeignKey(Block, on_delete=models.CASCADE)
    gender = models.CharField('Gender', choices=GENDER, max_length=100)
    course = models.IntegerField('Course year', choices=COURSE)
    faculty = models.CharField('Faculty name', choices=FACULTY, max_length=100)
    available = models.BooleanField(default=True)

    def __str__(self):
        return str(self.block) + ' block ' + str(self.floor) + ' floor ' + str(self.room_number) + ' room'

    class Meta:
        ordering = ('room_number', )

class Booking(models.Model):
    user = models.ForeignKey(User, null=True, on_delete=models.CASCADE)
    room = models.ForeignKey(Room, on_delete=models.CASCADE)
    check_file = models.FileField(null=True)

    def __str__(self):
        return str(self.user) + ' ' + str(self.room)
```



## REGISTER ACCOUNT



Username...



First Name...



Last Name...



Email...



Password...



Re-enter password...

Register Account

Already have an account? [Sign in](#)

## LOGIN



Username...



Password...

Login

Don't have an account? [Sign Up](#)

# The main page

SDU Dormitory Home

 [adok](#)

[Sign Out](#)

## SDU Dormitory.

Total Rooms

5

Total Rooms Boy

3

Total Rooms Girl

0

[Booking now](#)

# User's Profile Page

SDU Dormitory   Home   Booking

@ berni   [Sign Out](#)

## Profile

② Nursultan Berniyazov

Edit accounts

Edit

Booking History

Show

# Editing the Profile Page

SDU Dormitory Home Booking

@ berni

Sign Out

← Back to profile

## Account settings

First name: Nursultan

Last name: Berniyazov

Email address: berniyazov@gmail.com

Phone: 87778881110

Gender: Male ▾

Course year: 2 ▾

Faculty name: Faculty of Engineering and Natural Sciences ▾

Отправить

# Page where students book rooms

## Book Room

### Free room numbers

C block block 4 floor floor 404 room

C block block 4 floor floor 422 room

C block block 4 floor floor 422 room

Room number...

Floor number...

Block name...

Выберите файл    Файл не выбран

Book

# List of booked rooms by user

SDU Dormitory Home Booking

 berni

Sign Out

## Booking List

[← Back to profile](#)

First Name	Last Name	Room number	Floor number	Block name	Check file	
Nursultan	Berniyazov	422	4 floor	C block	<a href="#">2_5330518597221486561_UygeVd.pdf</a>	

# Admin's profile page

SDU Dormitory Home

@ [adok](#)

[Sign Out](#)

## Profile

@ Adilkhan Timuruly

Booking History

[Show](#)

Add room

[Add](#)

Room list

[Show](#)

# Page where admin can add free rooms

[← Back to profile](#)

## Add or Delete

[Add](#) [Delete](#)

# List of entered free rooms

SDU Dormitory

Home

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## Room list

[← Back to profile](#)

Room number	Floor number	Block name	Gender	Course year	Faculty name	Available
404	4 floor	C block	Male	2	Faculty of Engineering and Natural Sciences	True
422	4 floor	C block	Male	2	Faculty of Engineering and Natural Sciences	True
422	4 floor	C block	Male	2	Faculty of Engineering and Natural Sciences	True
422	4 floor	C block	Male	2	Faculty of Engineering and Natural Sciences	False
422	4 floor	C block	Male	2	Faculty of Engineering and Natural Sciences	False

# List of already booked rooms

SDU Dormitory Home

 [adok](#)

[Sign Out](#)

## Booking List

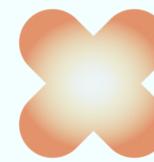
[← Back to profile](#)

First Name	Last Name	Room number	Floor number	Block name	Check file
Nursultan	Berniyazov	422	4 floor	C block	<a href="#">2_5330518597221486561_LlyqeVd.pdf</a>
Magzhan	Sultanay	422	4 floor	C block	<a href="#">2_5330518597221486561_IHjytGp.pdf</a>

# Additional work/ Future works



cash transactions:  
crediting to the  
account.



cancellation of booking



make the booking  
system more user-  
friendly



administrative part for  
staff