CS 470
Denis Nikolskiy

Photo Portfolio Website

System Overview

- Goal
  - Create a website that allows photographers to upload their photo portfolios
  - Client is a local photographer
- Why
  - There are currently no satisfactory websites that offer professional functionality without losing the photographer's personality

Approach

- CSS and HTML
- Database MySQL
- Python based framework Django

CSS and HTML

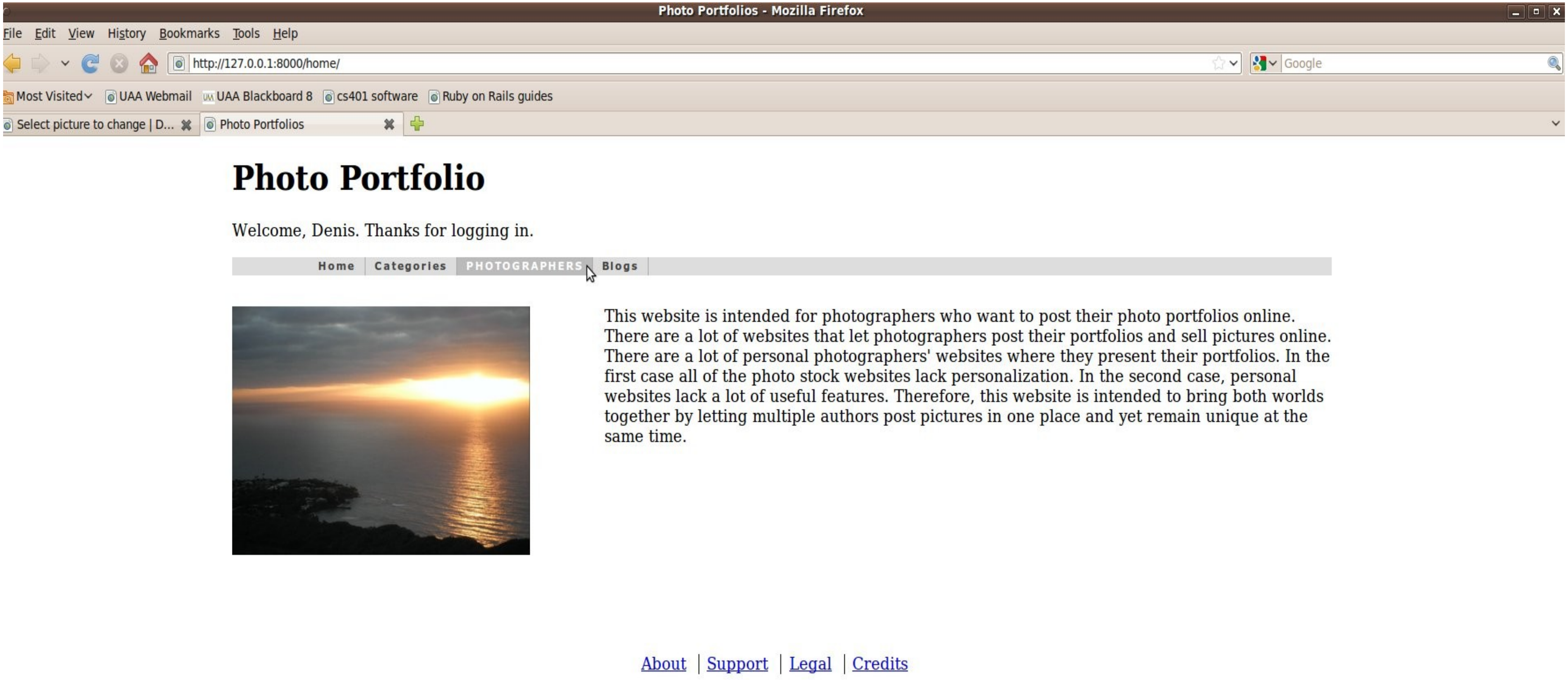

Photo Portfolios - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://127.0.0.1:8000/home/
Google
Most Visited
UAA Webmail
UAA Blackboard 8
cs401 software
Ruby on Rails guides
Select picture to change | D...
Photo Portfolios

Photo Portfolio

Welcome, Denis. Thanks for logging in.

Home
Categories
PHOTOGRAPHERS
Blogs

This website is intended for photographers who want to post their photo portfolios online. There are a lot of websites that let photographers post their portfolios and sell pictures online. There are a lot of personal photographers' websites where they present their portfolios. In the first case all of the photo stock websites lack personalization. In the second case, personal websites lack a lot of useful features. Therefore, this website is intended to bring both worlds together by letting multiple authors post pictures in one place and yet remain unique at the same time.

Database

- MySQL
- Design changed a lot over the course of the project
  - Used built-in User
    - Hashing passwords
  - Added extra tables
    - Available prints
  - Changed existing ones
    - Two fields with image path

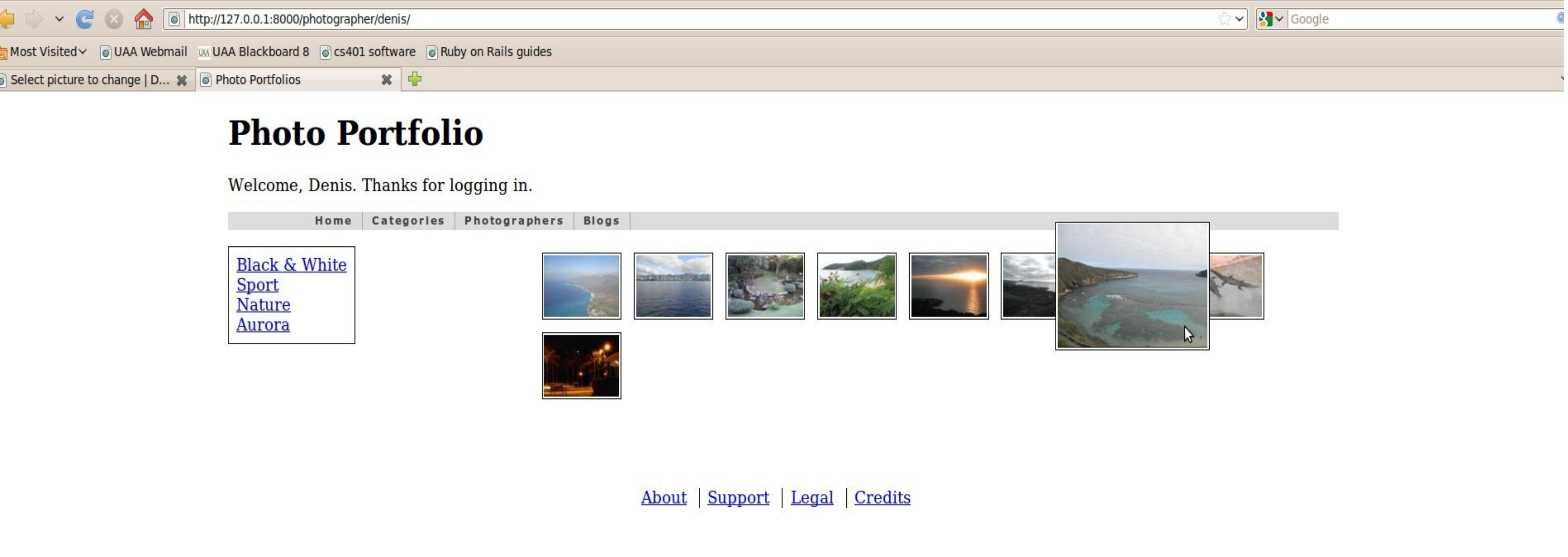

Photo Portfolio

Welcome, Denis. Thanks for logging in.

Black & White
Sport
Nature
Aurora

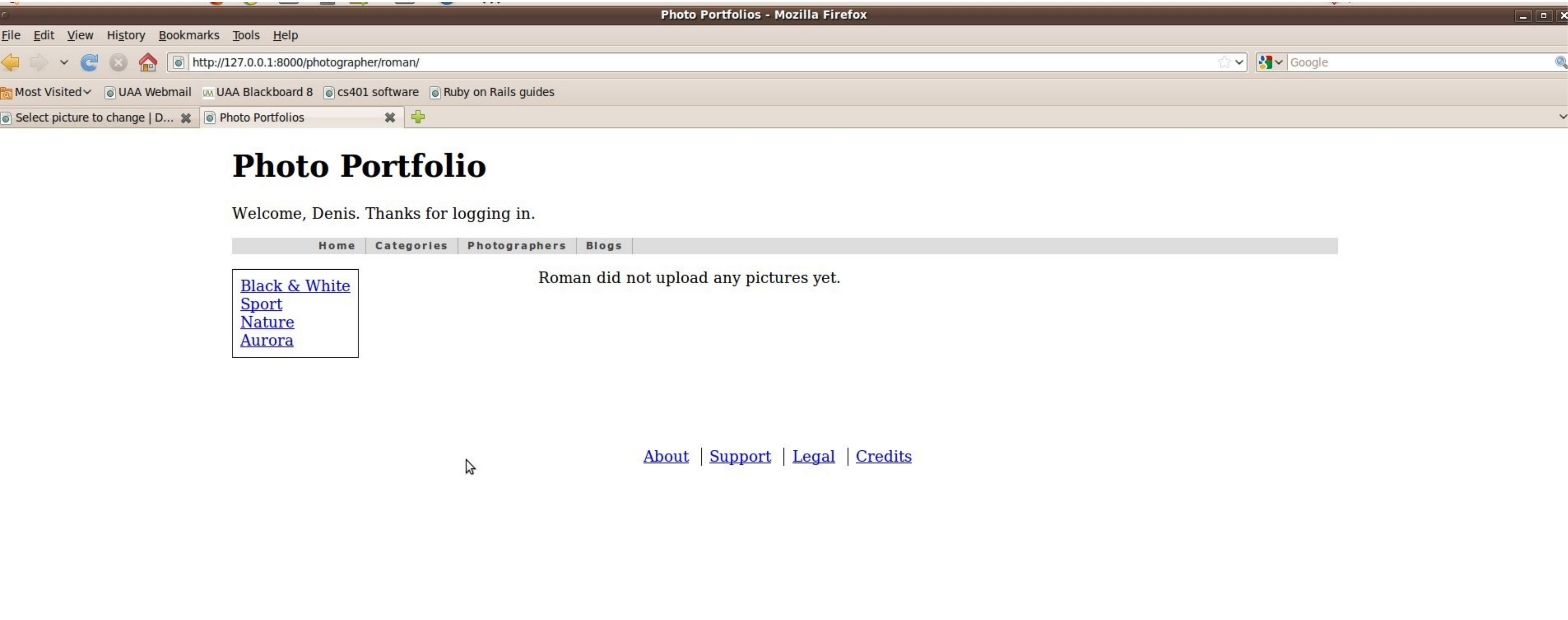

Photo Portfolio

Welcome, Denis. Thanks for logging in.

Black & White
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Roman did not upload any pictures yet.

Python and Django

- Hard is easy but easy is hard
  - User authentication
  - Admin pages
  - Nice urls
  - Saving images in custom directories

```
main_pic = models.ImageField(upload_to=get_upload_path)
def get_upload_path(instance, filename):
    return os.path.join(instance.author.username, filename)
# but I want to smuggle extra information into path creation



main_pic = models.ImageField(upload_to=get_upload_path('thumbnails'))
# I want file path to be user_name/thumbnails/picture_name.jpg
def get_upload_path(instance, filename, subfolder):
    return os.path.join(instance.author.username, subfolder, filename)
# Does not work!!!
```

```
main_pic = models.ImageField(upload_to=get_upload_path('thumbnails'))


def get_upload_path(subfolder):
    def upload_callback(instance, filename):
        return os.path.join(instance.author.username, subfolder, filename)
    return upload_callback
# for example file path will be denis/thumbnails/cat.jpg
```

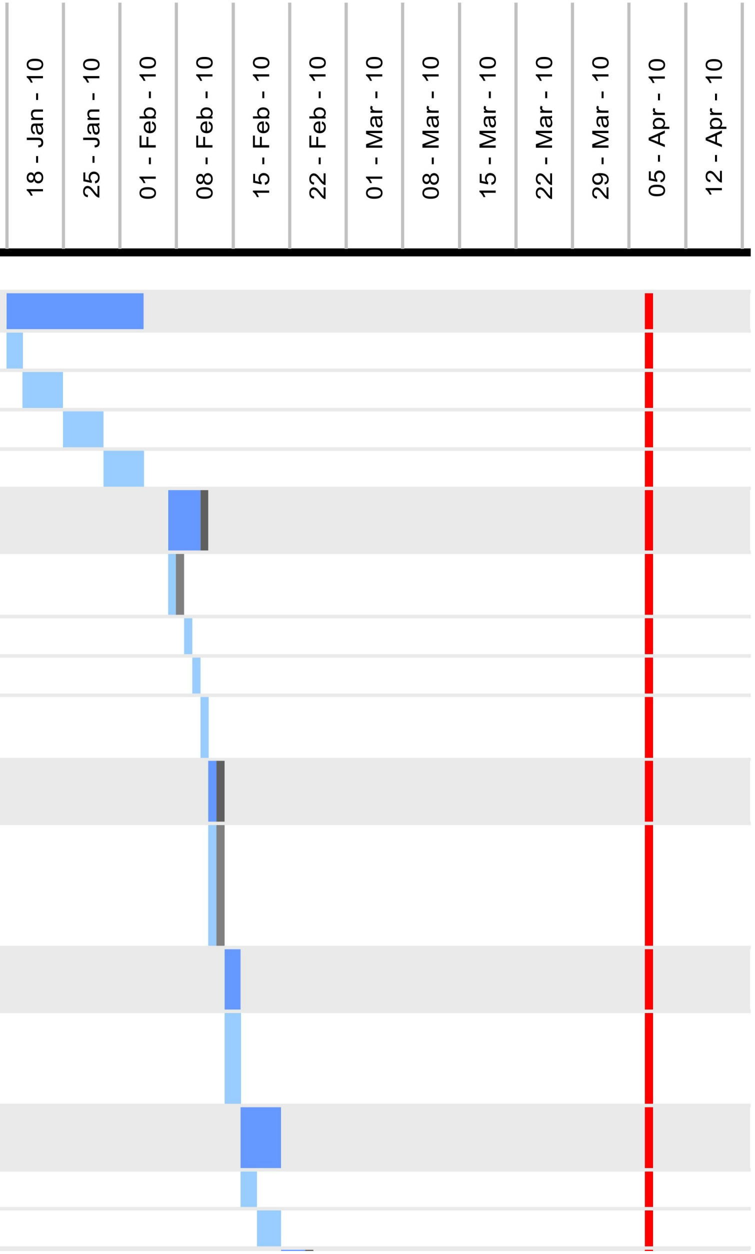
Prototyping

- Unclear initial requirements
- Feature chaining
  - Upload page → upload preview → upload multiple files → presentation logic
  - Update/delete page → …
- Reorganization of time-line
  - New framework → time was not adequately planned
- Communication with the client

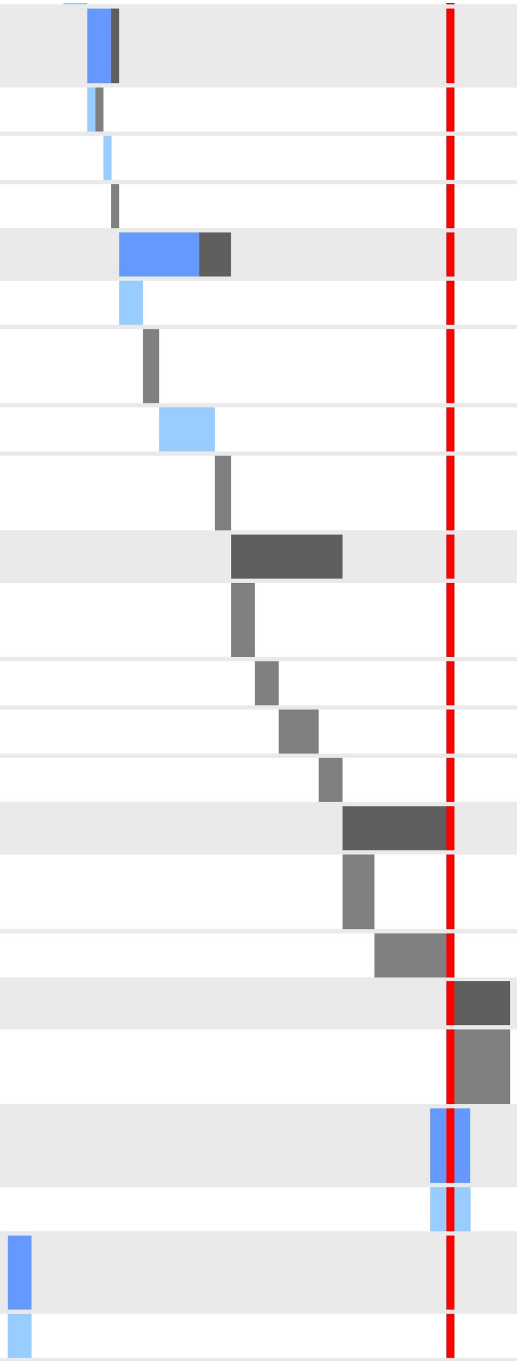
Project Lead: Denis Nikolskiy
Today's Date: 4/7/2010 (Wed) (vertical red line)
Start Date: 1/18/2010 (Mon)

First Day of Week (Sun=1): 2

WBS	Tasks	Task Lead	Start	End	Duration (Days)	% Complete	Working Days	Days Complete	Days Remaining
1	**Initial tasks 1**	Denis	1/18/10	2/04/10	17	100%	14	17	0
1.1	Planning		1/18/10	1/20/10	2	100%	3	2	0
1.2	Requirements		1/20/10	1/25/10	5	100%	4	5	0
1.3	Design		1/25/10	1/30/10	5	100%	5	5	0
1.4	Proposal		1/30/10	2/04/10	5	100%	4	5	0
2	**Homepage (us 1)**	Denis	2/07/10	2/12/10	5	88%	5	4	1
2.1	Research CSS and HTML		2/07/10	2/09/10	2	70%	2	1	1
2.2	Top menu		2/09/10	2/10/10	1	100%	2	1	0
2.3	Main area		2/10/10	2/11/10	1	100%	2	1	0
2.4	Photographer's page.		2/11/10	2/12/10	1	100%	2	1	0
3	**Show Prototype (us 2)**	Denis	2/12/10	2/14/10	2	70%	1	1	1
3.1	Setup django on the web host and upload web pages		2/12/10	2/14/10	2	70%	1	1	1
4	**Login page (us 3)**	Denis	2/14/10	2/16/10	2	100%	2	2	0
4.1	Create and Upload login page		2/14/10	2/16/10	2	100%	2	2	0
5	**Set up MySQL (us 4)**	Denis	2/16/10	2/21/10	5	100%	4	5	0
5.1	Tables (a) – (c.)		2/16/10	2/18/10	2	100%	3	2	0
5.2	Tables (d) – (f)		2/18/10	2/21/10	3	100%	2	3	0



6	**Account (us 6 -7)**	Denis	2/21/10	2/25/10	4	93%	4	3	1
6.1	Administrator		2/21/10	2/23/10	2	90%	2	1	1
6.2	Photographer		2/23/10	2/24/10	1	100%	2	1	0
6.3	Left menu		2/24/10	2/25/10	1	90%	2	0	1
7	**us 8-11**	Denis	2/25/10	3/11/10	14	71%	11	10	4
7.1	Picture upload		2/25/10	2/28/10	3	100%	2	3	0
7.2	Category assignment		2/28/10	3/02/10	2	0%	2	0	2
7.3	Picture resize		3/02/10	3/09/10	7	100%	6	7	0
7.4	View by categories		3/09/10	3/11/10	2	0%	3	0	2
8	**us 12-15**	Denis	3/11/10	3/25/10	14	0%	11	0	14
8.1	Individual picture view		3/11/10	3/14/10	3	0%	2	0	3
8.2	Key words		3/14/10	3/17/10	3	0%	3	0	3
8.3	Search function		3/17/10	3/22/10	5	0%	4	0	5
8.4	Comments		3/22/10	3/25/10	3	0%	4	0	3
9	**Us 15-17**	Denis	3/25/10	4/08/10	14	0%	11	0	14
9.1	Recommended pictures		3/25/10	3/29/10	4	0%	3	0	4
9.2	Blog		3/29/10	4/08/10	10	0%	9	0	10
10	**Testing**	Denis	4/08/10	4/15/10	7	0%	6	0	7
10.1	Testing and fixing		4/08/10	4/15/10	7	0%	6	0	7
11	**Final presentation**	Denis	4/05/10	4/10/10	5	100%	5	5	0
11.1	Preparation		4/05/10	4/10/10	5	100%	5	5	0
12	**Preliminary presentation**	Denis	2/11/10	2/14/10	3	100%	2	3	0
12.1	Preparation		2/11/10	2/14/10	3	100%	2	3	0



Conclusion

- Prepared base for full scale project
- I learned:
  - More Python!!!!
  - Django framework
  - Database experience (MySQL)
  - CSS
  - Website design experience
  - Some image processing
  - Hosting a database driven website

Thank you!

Questions?