



ÇANKAYA ÜNİVERSİTESİ
Department of Computer Engineering

EXAM PROCTOR AND CLASS ASSIGNMENT SYSTEM

CENG408 – Innovative System Design and Development II

Students

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Advisor

GÜL TOKDEMİR



EXAM PROCTOR AND CLASS ASSIGNMENT

- ❖ Exam Proctor and Class Assignment System is developed to schedule exams with less effort and hence increase people's productivity.
- ❖ **Main Features**
 - ❖ Automatic distribution of exams
 - ❖ Get teacher's requests for exams
 - ❖ Provide minimum overlap on student's exam calendar



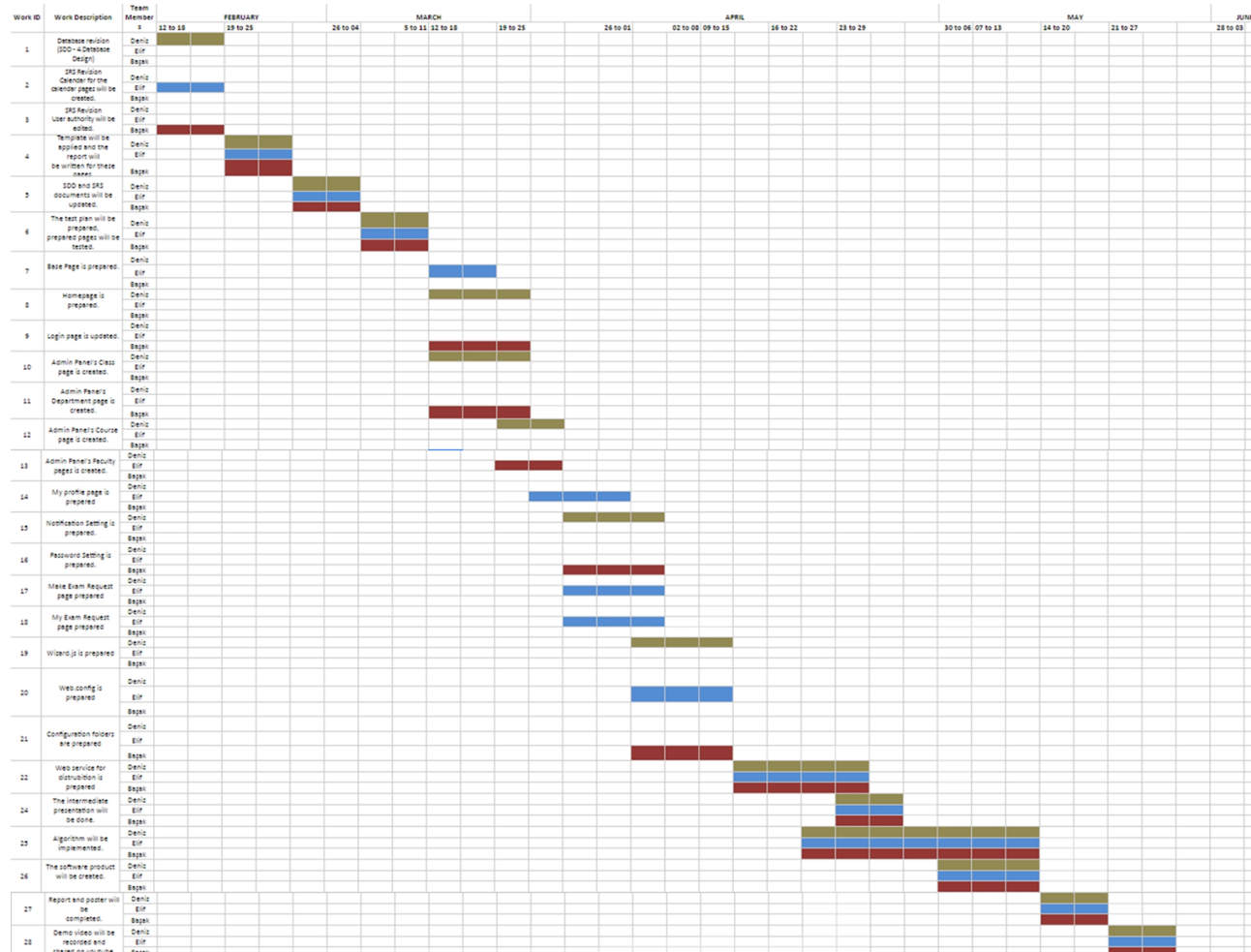
MAIN CONTRIBUTION

Pros and cons to similar projects

| Systems Properties | Assigning Proctors to Exams with Scatter Search | Prototype System Development for Examination Proctor Assignment Problem Using Mixed Integer Programing | Exam Proctor and Class Assignment System |
|--|---|---|---|
| Who has the authority to use the system | Only proctors | Only proctors | Student, teacher, assistant, department chair, dean, rector and admin |
| Acceptance of teacher's examination requests | It does not take teacher's request. | It does not take teacher's request. | It takes teacher's request; class type and number of assistant. |
| Homogeneous assistant distribution in terms of supervising hours. | It provides homogeneous distribution. | It does not control. | It provides in a efficient manner. |
| GUI | There is no information that GUI is designed in a user friendly manner. | There is no information that GUI is designed in a user friendly manner. | The system's GUI is designed in a user-friendly manner. |
| Distributing exams for classes and their types | It does not provide | It does not provide | It provides |



WORK PLAN





SUCCESS CRITERION

| Success Criterion | How to Measure |
|---|---|
| Successfully exam distribution with minimum conflicts | By looking at the results |
| Assistant's participations hours are divided equally | By looking at the results |
| Number and type of classes are distributed homogenously | By looking at the results |
| Personal exam calendar can be viewed | Comparing viewed calendars with procedures' results |



METHODS AND TECHNOLOGIES

.NET, JSON,
HTML, CSS,
JS, AJAX, C#

MSSQL –
Stored
Procedures

Windows
Service

Web Service
- SMS

Coloring
Algorithms

Heuristic
Algorithms



POTENTIAL RISKS (Predicted Risks)

| Risks | Probability | Impact | Mitigation Plan |
|---|-------------|--------|--|
| SCHEDULE: If phases of project will take more time or be late than planned, the testing will be delayed | High | High | Beforehand, team members are able to control to task and communicate with each other. |
| DEFECTS: Defects can be found at the end of each iteration.(life cycle of project) | Medium | Low | Due to our development methodology, expected defects can be handled as we planned |
| SCOPE: Scope is defined in our documentation | Medium | Medium | For review all over the project duration makes an ordered list. |
| Delayed Test Depending on New Issues | Medium | Medium | If new defects are discovered, the defect management procedure is in place to provide a resolution |



OBTAINED RESULTS

| B | F | G | H | I | J | K | Q | T | U |
|--|----------|-------|--------------|-------------------------|-------------------------|---------------|----------------------------|----------------|----------------|
| Bölüm Adı | Ders Adı | Sınıf | Sınav Süresi | Sınav Başlama Zamanı | Sınav Bitiş Zamanı | Sınav Yeri | Sınav Giren Öğrenci Sayısı | Asistan Adı | Asistan Soyadı |
| Electrical and Electronics Engineering | EE154 | 1 | 90 dk | 2018-05-08 10:30:00.000 | 2018-05-08 12:00:00.000 | NA02 | 112 | Ali | Dursun |
| Electrical and Electronics Engineering | EE154 | 1 | 90 dk | 2018-05-08 10:30:00.000 | 2018-05-08 12:00:00.000 | NA02 | 112 | İlyas Muzaffer | GÜLBAY |
| Electrical and Electronics Engineering | EE200 | 2 | 90 dk | 2018-05-08 12:05:00.000 | 2018-05-08 13:35:00.000 | LB01 | 1 | İlyas Muzaffer | GÜLBAY |
| Electrical and Electronics Engineering | EE202 | 2 | 90 dk | 2018-05-09 10:30:00.000 | 2018-05-09 12:00:00.000 | HA04 | 80 | Mehtap | YORULMAZ |
| Electrical and Electronics Engineering | EE202 | 2 | 90 dk | 2018-05-09 10:30:00.000 | 2018-05-09 12:00:00.000 | HA04 | 80 | Ali | Dursun |
| Electrical and Electronics Engineering | EE206 | 2 | 90 dk | 2018-05-10 10:30:00.000 | 2018-05-10 12:00:00.000 | H129 (Amfi-5) | 81 | Serkan | ZOR |
| Electrical and Electronics Engineering | EE206 | 2 | 90 dk | 2018-05-10 10:30:00.000 | 2018-05-10 12:00:00.000 | H129 (Amfi-5) | 81 | Mehtap | YORULMAZ |
| Electrical and Electronics Engineering | EE208 | 2 | 90 dk | 2018-05-11 10:30:00.000 | 2018-05-11 12:00:00.000 | NA01 | 98 | Neşe | MEVSİM |
| Electrical and Electronics Engineering | EE208 | 2 | 90 dk | 2018-05-11 10:30:00.000 | 2018-05-11 12:00:00.000 | NA01 | 98 | Serkan | ZOR |
| Electrical and Electronics Engineering | EE210 | 2 | 60 dk | 2018-05-12 10:30:00.000 | 2018-05-12 11:30:00.000 | H129 (Amfi-5) | 96 | İlyas Muzaffer | GÜLBAY |
| Electrical and Electronics Engineering | EE210 | 2 | 60 dk | 2018-05-12 10:30:00.000 | 2018-05-12 11:30:00.000 | H129 (Amfi-5) | 96 | Neşe | MEVSİM |
| Electrical and Electronics Engineering | EE214 | 2 | 60 dk | 2018-05-13 10:30:00.000 | 2018-05-13 11:30:00.000 | MA02 | 69 | Mehtap | YORULMAZ |
| Electrical and Electronics Engineering | EE214 | 2 | 60 dk | 2018-05-13 10:30:00.000 | 2018-05-13 11:30:00.000 | MA02 | 69 | Ali | Dursun |
| Electrical and Electronics Engineering | EE304 | 3 | 60 dk | 2018-05-08 13:40:00.000 | 2018-05-08 14:40:00.000 | LB05 | 49 | Neşe | MEVSİM |
| Electrical and Electronics Engineering | EE304 | 3 | 60 dk | 2018-05-08 13:40:00.000 | 2018-05-08 14:40:00.000 | LB05 | 49 | Serkan | ZOR |
| Electrical and Electronics Engineering | EE310 | 3 | 60 dk | 2018-05-09 12:05:00.000 | 2018-05-09 13:05:00.000 | H130 (Amfi-6) | 44 | Ali | Dursun |
| Electrical and Electronics Engineering | EE310 | 3 | 60 dk | 2018-05-09 12:05:00.000 | 2018-05-09 13:05:00.000 | H130 (Amfi-6) | 44 | İlyas Muzaffer | GÜLBAY |
| Electrical and Electronics Engineering | EE322 | 3 | 60 dk | 2018-05-10 12:05:00.000 | 2018-05-10 13:05:00.000 | LB05 | 50 | Serkan | ZOR |
| Electrical and Electronics Engineering | EE322 | 3 | 60 dk | 2018-05-10 12:05:00.000 | 2018-05-10 13:05:00.000 | LB05 | 50 | Mehtap | YORULMAZ |
| Electrical and Electronics Engineering | EE324 | 3 | 60 dk | 2018-05-11 12:05:00.000 | 2018-05-11 13:05:00.000 | LB05 | 49 | İlyas Muzaffer | GÜLBAY |
| Electrical and Electronics Engineering | EE324 | 3 | 60 dk | 2018-05-11 12:05:00.000 | 2018-05-11 13:05:00.000 | LB05 | 49 | Neşe | MEVSİM |
| Electrical and Electronics Engineering | EE402 | 4 | 60 dk | 2018-05-08 14:45:00.000 | 2018-05-08 15:45:00.000 | LB01 | 7 | Ali | Dursun |
| Electrical and Electronics Engineering | EE408 | 4 | 60 dk | 2018-05-09 13:10:00.000 | 2018-05-09 14:10:00.000 | LB01 | 6 | Mehtap | YORULMAZ |
| Electrical and Electronics Engineering | EE456 | 4 | 60 dk | 2018-05-10 13:10:00.000 | 2018-05-10 14:10:00.000 | NA01 | 88 | Neşe | MEVSİM |
| Electrical and Electronics Engineering | EE456 | 4 | 60 dk | 2018-05-10 13:10:00.000 | 2018-05-10 14:10:00.000 | NA01 | 88 | Serkan | ZOR |
| Electrical and Electronics Engineering | EE458 | 4 | 60 dk | 2018-05-11 13:10:00.000 | 2018-05-11 14:10:00.000 | LB01 | 13 | İlyas Muzaffer | GÜLBAY |
| Electrical and Electronics Engineering | EE459 | 4 | 60 dk | 2018-05-12 11:35:00.000 | 2018-05-12 12:35:00.000 | LA14 | 43 | Ali | Dursun |
| Electrical and Electronics Engineering | EE459 | 4 | 60 dk | 2018-05-12 11:35:00.000 | 2018-05-12 12:35:00.000 | LA14 | 43 | Mehtap | YORULMAZ |
| Electrical and Electronics Engineering | EE462 | 4 | 60 dk | 2018-05-13 11:35:00.000 | 2018-05-13 12:35:00.000 | MB03 | 32 | Serkan | ZOR |
| Industrial Engineering | IE101 | 1 | 90 dk | 2018-05-01 12:35:00.000 | 2018-05-01 14:05:00.000 | HA04 | 78 | Özgür | BULUT |
| Industrial Engineering | IE200 | 2 | 100 dk | 2018-05-04 12:05:00.000 | 2018-05-04 13:45:00.000 | MB04 | 2 | Aslı | KOCA |

After distribution, result table example



OBTAINED RESULTS (Continue)

CANKAYA ÜNİVERSİTESİ

Exam Calendar

Exam List

< > today MAY 27 – JUN 2, 2018 month week day list

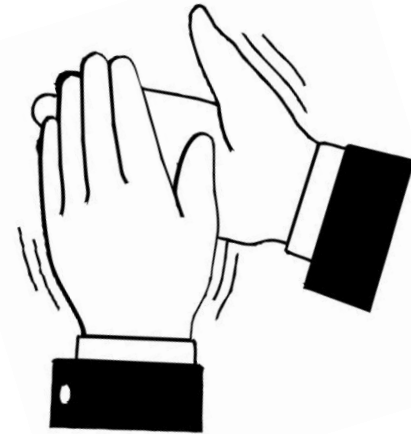
| SUNDAY | | May 27, 2018 |
|--------|-------------------------------|--------------|
| 7:06pm | ECE358 Request is received | |
| 7:06pm | ECE108 Request is received | |

After distribution, homepage example



ACKNOWLEDGEMENTS

- ❖ Also, we would like to thank to company engineer; Emrah Yıldırım who helped us during this project.





THANK YOU FOR LISTENING

ANY
QUESTIONS

