



UGP
Presentation

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Mentor: Dr.
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Prutor Database and Interface Improvements

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Mentor: Dr. Amey Karkare

IIT Kanpur

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum



Outline

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks



Introduction

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

What is Prutor?

Prutor is a tutoring system for introductory programming courses. In recent times, there has been a hike in popularity of online courses and Prutor can be a very helpful tool for instructors who teach introductory programming courses.



Introduction

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

Our Work

We have implemented various features to Prutor's admin interface. This includes addition of two modules:

- One for grading task assignment to Teaching Assistants (fixed or random assignment)



Introduction

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum

Our Work

We have implemented various features to Prutor's admin interface. This includes addition of two modules:

- One for grading task assignment to Teaching Assistants (fixed or random assignment)
- Other for report generation. The report can be generated for students or the lab events (individual or all).

Continued on next slide ...



Introduction

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

Our Work...

Some other features which can help an instructor were identified and implemented, for example, deadline extension, CSV support for report generation, assigning maximum marks for a problem.



Introduction

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Ameey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

Our Work...

Some other features which can help an instructor were identified and implemented, for example, deadline extension, CSV support for report generation, assigning maximum marks for a problem.

We modified the interaction with database tables and queries such that no entry is deleted from the interface, but marked as inactive. If an admin accidentally deletes an entry (account, problem or event), it can be recovered with ease.



UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



List of Features and Changes

UGP

Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- New Dashboard



List of Features and Changes

UGP

Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- New Dashboard
- Grading Tasks Module



List of Features and Changes

UGP

Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- New Dashboard
- Grading Tasks Module
- Report Generation Feature in Miscellaneous Module



List of Features and Changes

UGP

Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- New Dashboard
- Grading Tasks Module
- Report Generation Feature in Miscellaneous Module
- Deadline Extension Feature



List of Features and Changes

UGP

Presentation

Anuj Nagpal
and Abhishek

Verma

Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- New Dashboard
- Grading Tasks Module
- Report Generation Feature in Miscellaneous Module
- Deadline Extension Feature
- Feature to Change Maximum Marks for a Problem



List of Features and Changes

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- New Dashboard
- Grading Tasks Module
- Report Generation Feature in Miscellaneous Module
- Deadline Extension Feature
- Feature to Change Maximum Marks for a Problem
- Allowing Recovery of Deleted Entries from Database



UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



New Dashboard

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

The dashboard is the first thing that a non-student user sees when he/she logs into the system.



New Dashboard

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

The dashboard is the first thing that a non-student user sees when he/she logs into the system.

Earlier there were 4 tabs which were changed to 6 tabs.
2 more new tabs - Grading Tasks and Miscellaneous Tasks were added.



How It Looks?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

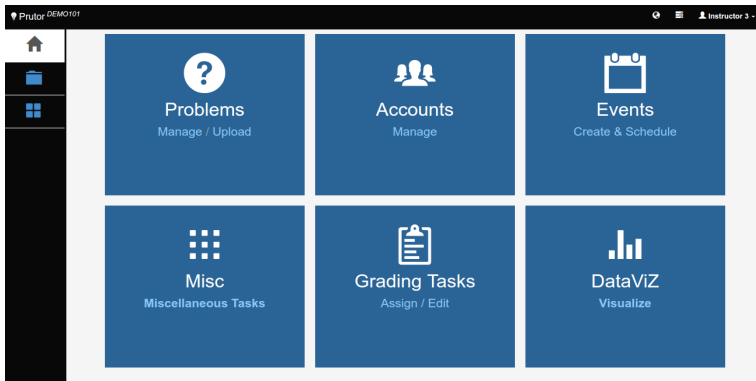


Figure 1: Dashboard



UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module**
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- Purpose of this module is easy grading task assignment to Teaching Assistants.



How It Looks?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

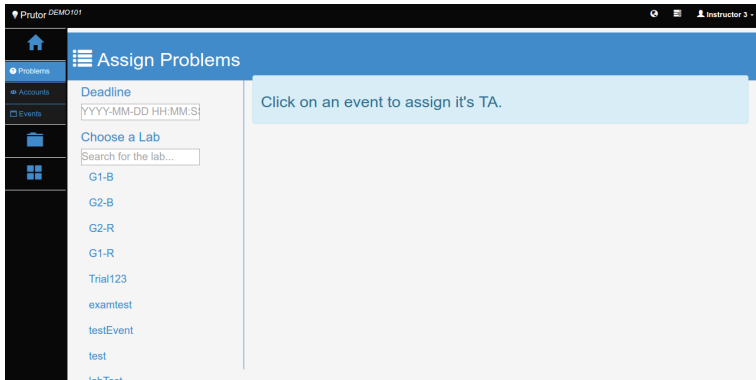
Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark





How It Works?

- There are two input boxes: one for setting the deadline and other for choosing a lab event.

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



How It Works?

- There are two input boxes: one for setting the deadline and other for choosing a lab event.

Assign Problems

Deadline

YYYY-MM-DD HH:MM:SS

Choose a Lab

Search for the lab...

G1-B

G2-B

G2-R

G1-R

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



How It Works?

On clicking an event, you can see three columns: TA List, Problem Number Allotted and Number of Problems Allotted

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



How It Works?

On clicking an event, you can see three columns: TA List, Problem Number Allotted and Number of Problems Allotted

Prutor DEMO101

Instructor 3

Assign Problems

Deadline
YYYY-MM-DD HH:MM:S

Choose a Lab

Search for the lab...

G1-B

G2-B

G2-R

G1-R

Trial123

examtest

testEvent

test

labTest

Submitted Problems: **830** | Total Problems: **914** | TA: **40**

| Choose an Option | Specific Problem | Specific Number |
|------------------|-------------------------|-----------------------------|
| TA List | Problem Number Allotted | Number of Problems Allotted |
| TA 1 | 2806 | 21 |
| TA 2 | 2806 | 21 |
| TA 3 | 2806 | 21 |
| TA 4 | 2806 | 21 |
| TA 5 | 2806 | 21 |
| TA 6 | 2807 | 21 |
| TA 7 | 2807 | 21 |
| TA 8 | 2807 | 21 |
| TA 9 | 2807 | 21 |
| TA 10 | 2807 | 21 |
| TA 11 | 2808 | 21 |
| TA 12 | 2808 | 21 |
| TA 13 | 2808 | 21 |
| TA 14 | 2808 | 21 |
| TA 15 | 2808 | 21 |

UGP

Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



How It Works?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

You can find two options on the top of the columns: Problem Specific Assignment and Number Specific Assignment.



How It Works?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

You can find two options on the top of the columns: Problem Specific Assignment and Number Specific Assignment.

| Choose an Option | Specific Problem | Specific Number |
|------------------|-----------------------------------|---------------------------------|
| TA List | Problem Number Allotted | Number of Problems Allotted |
| TA 1 | <input type="text" value="2806"/> | <input type="text" value="21"/> |
| TA 2 | <input type="text" value="2806"/> | <input type="text" value="21"/> |



How It Works?

UGP Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum

- If you want to assign specific problems to specific TAs, change the column entries in 2nd column and click on the Specific Problem option to assign the problems.



How It Works?

UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of Features

New Dashboard

Grading Tasks Module

Miscellaneous Module

ReportGen Module

Deadline Extension Feature

Changing Maximum Mark

- If you want to assign specific problems to specific TAs, change the column entries in 2nd column and click on the Specific Problem option to assign the problems.
- If you want to assign specific number of problems to specific TAs, change the column entries in 3rd column and click on the Specific Number option to assign the problems.



UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



Miscellaneous Module

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- This module is added for miscellaneous tasks and looks similar to the original dashboard.



Miscellaneous Module

UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- This module is added for miscellaneous tasks and looks similar to the original dashboard.
- Currently only one tab (ReportGen) out of six is made active and functioning.



How It Looks?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

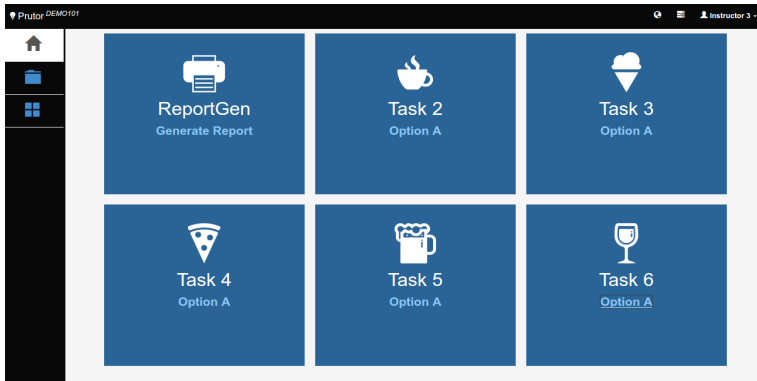
Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark





UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module**
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



ReportGen

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

ReportGen feature generates marks report for students for individual as well as all lab events.



How It Looks?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

Prutor DEMO101

Instructor 3

ReportGen 1.0

- Choose Student By

(Leave all boxes blank if you want to generate report for every student)

Roll Number

or Email ID

- Choose Event

Event Name

Submit

Choose a student and/or an event to generate report



How It Works?

You have to provide two inputs, student's roll number or email ID and the event name

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



How It Works?

You have to provide two inputs, student's roll number or email ID and the event name

- Choose Student By

(Leave all boxes blank if you want to generate report for every student)

Roll Number

or Email ID

- Choose Event

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



How It Works?

UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- If you leave the event input box empty, report for all the lab events for that student will be generated.



How It Works?

UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- If you leave the event input box empty, report for all the lab events for that student will be generated.
- If you leave roll number and email ID input box empty, report for all students for that lab event will be generated.



How It Works?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- If you leave the event input box empty, report for all the lab events for that student will be generated.
- If you leave roll number and email ID input box empty, report for all students for that lab event will be generated.
- If you leave all boxes empty, report for all students for all lab events will be generated.



How It Works?

UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

The module is provided with CSV support also i.e. you can download the report as a csv file.



How It Works?

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma

Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

The module is provided with CSV support also i.e. you can download the report as a csv file.





UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature**
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



Deadline Extension Feature

A new event dashboard which supports extending deadline by any amount (by few minutes or by many days, even negative minutes is also allowed)

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum



Deadline Extension Feature

A new event dashboard which supports extending deadline by any amount (by few minutes or by many days, even negative minutes is also allowed)

Upcoming/Ongoing

Lab XYZ [Dashboard](#)


Problems have not been assigned for this event.

Day 5

Begins: 17/04/2017, 00:00:00
Ends: 03/05/2017, 00:00:00

Inc/Dec End Time By Minutes
Enter negative value to decrease end time

[Submit](#)

New End-Time: 

[Submit](#)

UGP

Presentation

Anuj Nagpal
and Abhishek

Verma

Mentor: Dr.
AmeY Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum



Extending Deadline By Some Minutes

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Minutes

Upcoming/Ongoing

Lab XYZ

Dashboard

Problems have not been assigned for this event.

Day 5

Begins: 17/04/2017, 00:00:00

Ends: 03/05/2017, 00:00:00

Inc/Dec End Time By Minutes

Enter negative value to decrease end time

Submit

New End-Time:

Submit



Extending Deadline By Some Days

UGP
Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

Upcoming/Ongoing

Lab XYZ

Dashboard

Problems have not been assigned for this event.

Day 5

Begins: 17/04/2017, 00:00:00

Ends: 03/05/2017, 00:00:00

Inc/Dec End Time By *Minutes*

Enter negative value to decrease end time

Submit

New End-Time:

26-04-2017 23:22:51



Submit



UGP Presentation

Anuj Nagpal
and Abhishek
Verma
Mentor: Dr.
Amey Karkare

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks**
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



Changing Maximum Marks

On the manage problems page, a small new feature has been added which allows you to change maximum marks for a problem

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks



Changing Maximum Marks

On the manage problems page, a small new feature has been added which allows you to change maximum marks for a problem

Manage Problems Upload Problems

Create a Problem

Local (PVD) Identifier
eg: p1v1d1

Category
eg: Strings

[+ Create](#)

CompactFunction [\[Change Title\]](#)

P1-V1-D1

Programming Environment: C (Update Programming Environment ---)

Maximum Marks: 56 [\[Edit Marks\]](#)

Problem Statement [\[Edit\]](#)

(20 Points)

Compact Form of a given number n is computed as follows:
Step 0. Repeat step 1 and step 2 until a one digit number is reached.
Step 1. Divide the digits in the number into pairs of adjacent digits. If at any time, the number of digits in n are odd (except when the number of digits is 1), we add a zero on left side of the number.
Step 2. Take the (sum modulo 7) + 1 of the numbers in each pair and get the new number made of these digits.



How Things Look?

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

Maximum Marks: 56

[\[Edit Marks\]](#)

 Save



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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



Recovery of Deleted Entries

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum

- To allow recovery of deleted entries if by chance a user deletes an entity (problem, event, account etc), we added an attribute "is_deleted" to all the appropriate tables.



Recovery of Deleted Entries

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum

- To allow recovery of deleted entries if by chance a user deletes an entity (problem, event, account etc), we added an attribute "is_deleted" to all the appropriate tables.
- If an entity is deleted, its is_deleted entry is set to 1



Recovery of Deleted Entries

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum

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- If an entity is deleted, its is_deleted entry is set to 1
- To recover an entry, change its is_deleted entry to 0 in the database



Recovery of Deleted Entries

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum

- To allow recovery of deleted entries if by chance a user deletes an entity (problem, event, account etc), we added an attribute "is_deleted" to all the appropriate tables.
- If an entity is deleted, its is_deleted entry is set to 1
- To recover an entry, change its is_deleted entry to 0 in the database
- All the queries and schema were accordingly updated to accommodate this change for all the tables.



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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Marks

- 1 Introduction
- 2 List of Features
- 3 New Dashboard
- 4 Grading Tasks Module
- 5 Miscellaneous Module
- 6 ReportGen Module
- 7 Deadline Extension Feature
- 8 Changing Maximum Marks
- 9 Recovery of Deleted Entries
- 10 Further Work Possible



Further Work Possible

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- Data Analytics Module

Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark



Further Work Possible

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- Data Analytics Module
- Lazy Template Assignment



Further Work Possible

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- Data Analytics Module
- Lazy Template Assignment
- Penetration testing of whole application for any vulnerabilities



Further Work Possible

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Presentation

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- Data Analytics Module
- Lazy Template Assignment
- Penetration testing of whole application for any vulnerabilities
- Step by step execution of code which will help students better understand how code runs



Further Work Possible

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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

- Data Analytics Module
- Lazy Template Assignment
- Penetration testing of whole application for any vulnerabilities
- Step by step execution of code which will help students better understand how code runs
- Many other issues on prutor bitbucket repository



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Introduction

List of
Features

New
Dashboard

Grading Tasks
Module

Miscellaneous
Module

ReportGen
Module

Deadline
Extension
Feature

Changing
Maximum
Mark

Thanks!