iScheduler

CS 235 -Desktop application
Team: Ux-Plorers

Agenda

- **What is iScheduler?**
- **Our Client requirements**
  - Functional
  - Non-functional
- **Use cases**
- **Demo**
- **Organisational design patterns covered**
- **Navigational design patterns covered**
- **Page layout**
- **Q & A**

What is Task Scheduler?

You can use this Task Scheduler to

- Create
- Delete
- Manage

common tasks that your computer will carry out automatically at the time you specify.

How will it accomplish the tasks?

Run the tasks in background at preset time, update the log file and display the results of the task execution

Functional requirements

- User can create a new task and can set the time through the calendar as to which the task has to be executed.
- User can set tasks to run repeatedly.
- The scheduler is given lowest priority in a system. It will run the task when minimal resources are consumed by the processor.
- In case of an error scenario/ when system is busy, user is provided with an option to run the task again. A popup is displayed which shall ask the user to select one of the options mentioned below:
  - Execute the task now
  - Postpone it for later.

Non-functional requirements:

- **Platform Constraints & Portability**
- **Operating Constraints**
- **Target users**: System admins, Students.
- **Security**
- The application can be run in foreground / background.
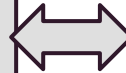- **Reliability**

Use-cases

- **Student can Create Task**
- **Student can Delete Task**
- **System administrator can Monitor tasks**
- **Student can Postpone tasks to execute later if there is an Error / if System is busy**

DEMO OF OUR APPLICATION

DEMO : Requirement Coverage

HOME SCREEN

⟷

1 : When the application is launched, the UI must display the tasks that are currently being executed and the tasks scheduled for the day.

2: User shall have access to the log file

3: The scheduler must be given lowest priority in a system.

4: The user shall be able to view the task status for whole week

5: User can monitor the tasks

DEMO : Requirement Coverage

TASK TAB
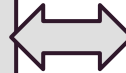
6 : Create multiple tasks which can be executed on daily / weekly basis

7 : User can delete any task if he does not wish to execute the same

8: User can modify the previously scheduled tasks

9: User can view the scheduled tasks

DEMO : Requirement Coverage

HELP, VIEW
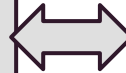
10 : Full fledged help screen which enables easy usage of the system

11 : User can view the task status for any date by choosing the particular date

12: In case of error the user can check the reason for error and select Execute now / postpone.

Organisational Design Patterns Used

- **Dashboard** : Home screen
- **Wizard** : Create, delete tasks
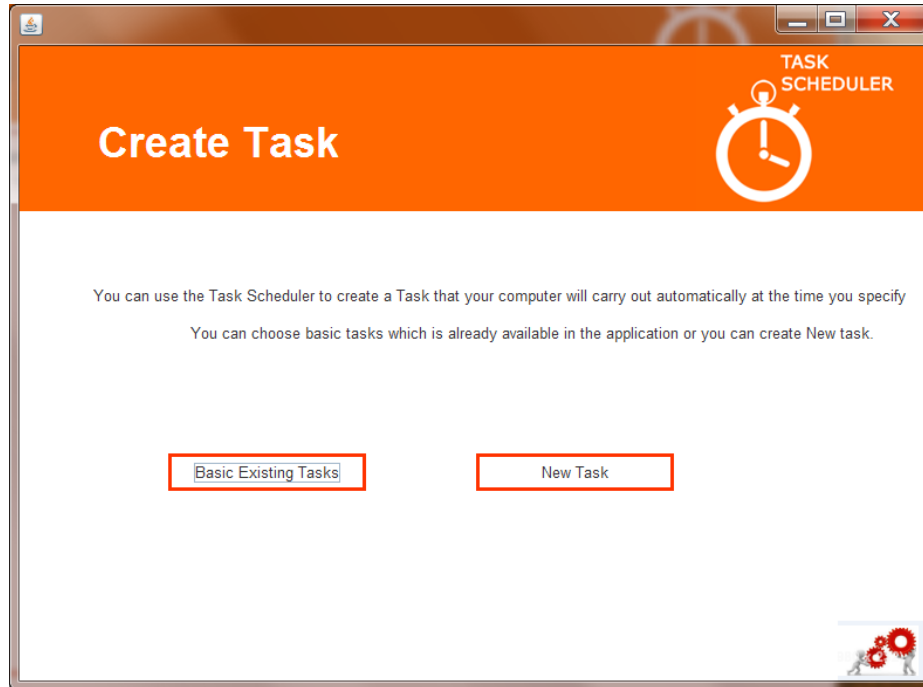- **Feature, Search and Browse** : Help page

Organisational Pattern 1 : Dashboard

- Task status
- Upcoming tasks
- System usage
- 1-click actions
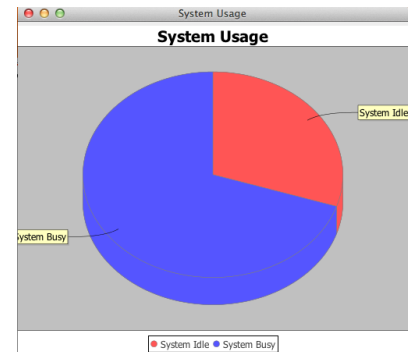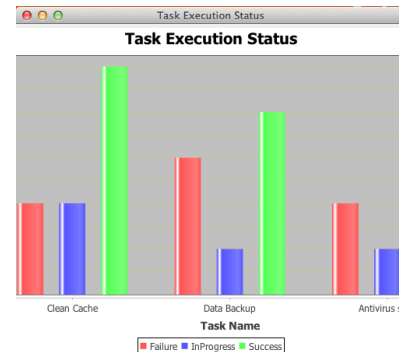
Organisational Pattern 2: Wizard

- Wizard to create tasks
- Step1:
  - Get type of task from user
- Step2:
  - Get more info about that task.

Organisational Design Pattern 3: Feature, Search, Browse

- Featured top questions.
- Search.
- List to browse.
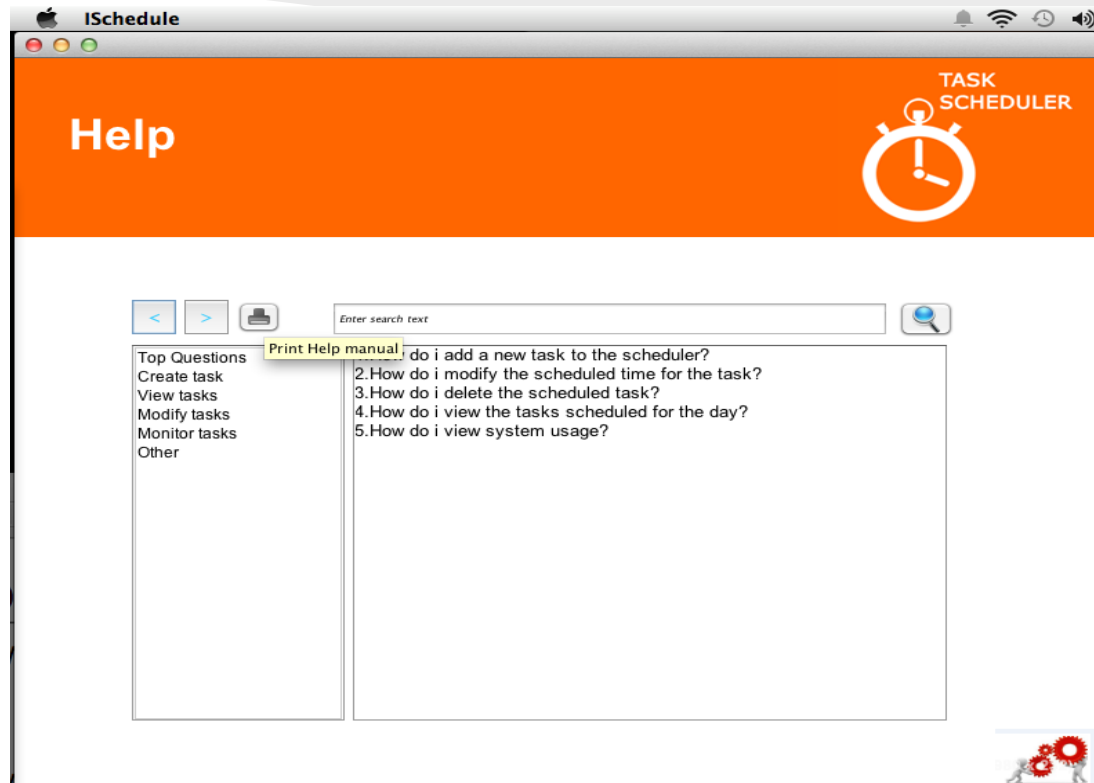
Navigational Design Patterns Used

■ Clear entry points : Home screen

    Entry point through the home screen only

■ Sequential : Create, delete tasks

    The application takes the user along a

    linear path

■ Hub and spoke : All items when traversed from home page

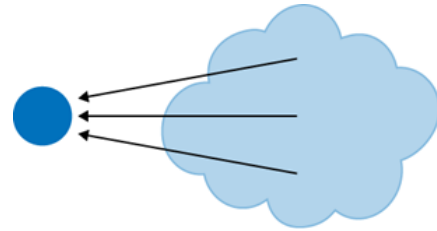   Page filled with links to other pages
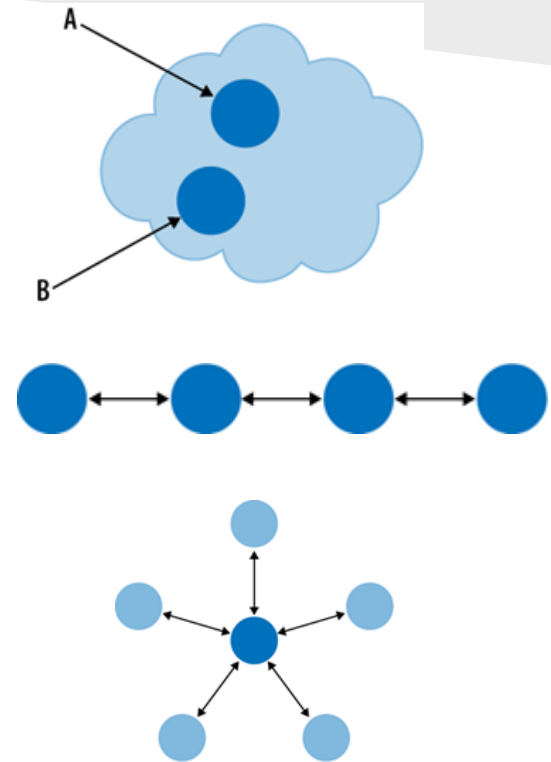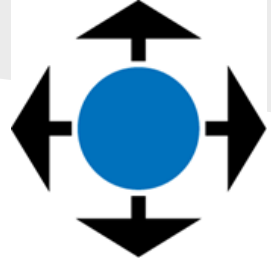
Navigational Design Patterns Used
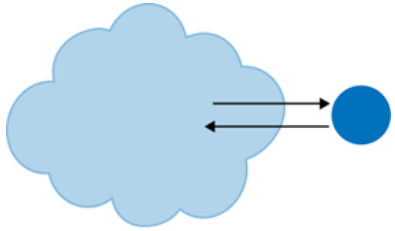
- ❏ Pan and zoom : Dash board -> pie chart, bar graph, log file
- ❏ Modal dialog : All dialogs

    Only 1 page with no navigation options

- ❏ Escape hatch : Closing window of add/delete or monitor navigates to the home screen.

    User can abort a task

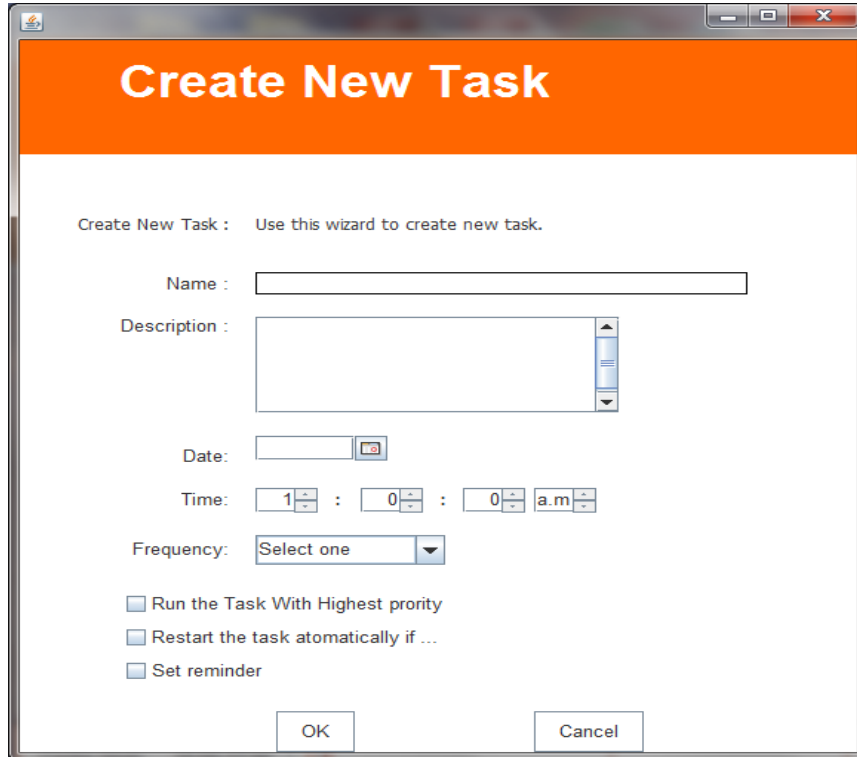# Page Layouts Design Patterns Used

●Grid of Equals

●Left – Right Alignment

●Self – Adjusting Layout

Grid of equals

- Equally important items in a grid

- Tells user that items are similar

Left Right Alignment

- 2 column arrangement

- Right-aligned labels on the left

- Left-aligned items on the right

Self-adjusting layout
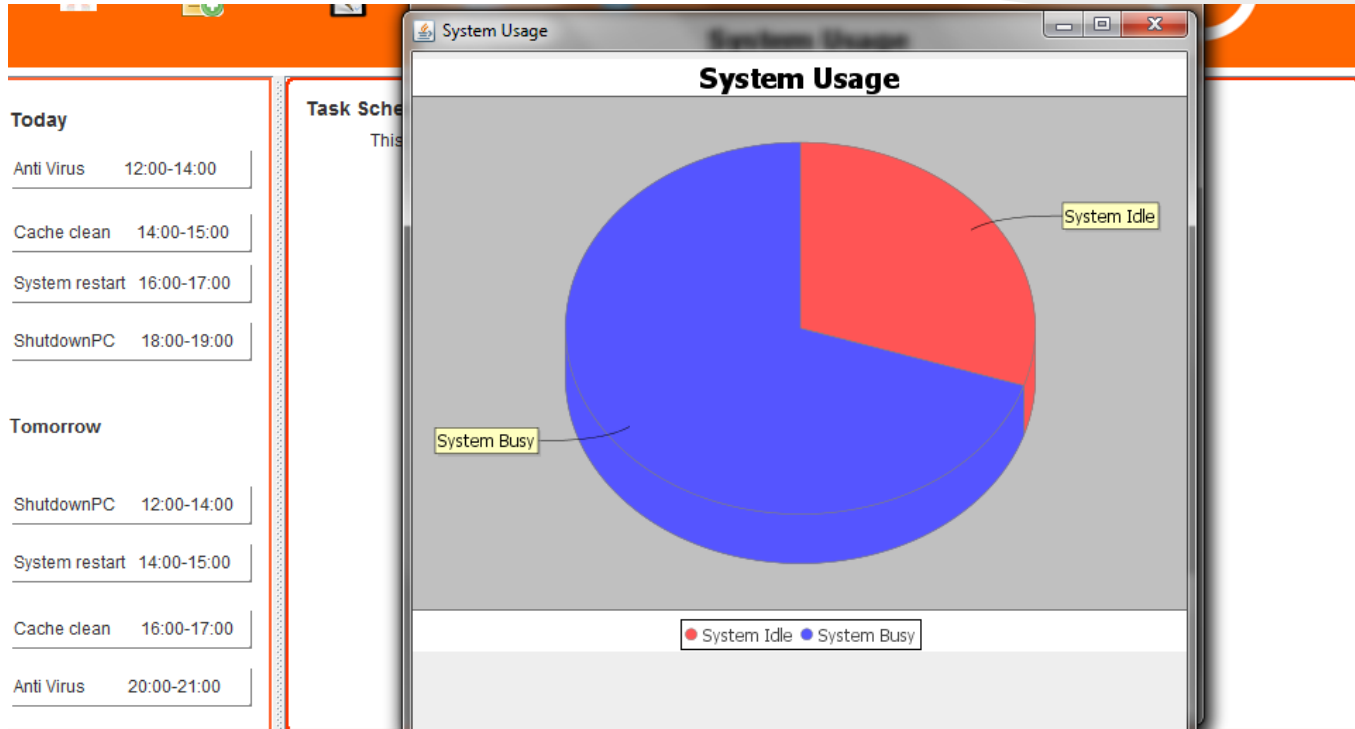
- Users can resize windows as desired

Other items to highlight

- ❏ Show importance with Text Sizes : Home page, Create and Delete tasks
- ❏ Show relationships by grouping : Home page, Create and Delete tasks
- ❏ Lists : Striped rows with differing colors are used in Monitor task page
- ❏ Action : Progress Indicator is used to assure the user that progress is being made
- ❏ For getting input from the user we give him a list of options
- ❏ Prompting Text field: For searching in Help screen

Q & A??

Thank you!!!