Brock Butler Class Design Document
CD–UI03-Scheduler Activity Class
Date Modified: 02/28/2013
Version: 1.0

Revision History

Date	Version	Change	Author
02/28/13	1.0	Initial Draft	Vince Pascuzzi

Description

Scheduler Activity displays the student schedule. This includes class times and additional tasks that the user can add via the menu. Tasks are modified via this Activity. Emails can be sent to instructors, the Maps Activity can be launched to find or get directions to a location. Options include expanding/collapsing all course schedules, alter the ordering of the courses, adding a task, and showing/hiding completed tasks. This Activity heavily utilizes the database for reading and writing data.

Methods

- **Course [] getCourses( );**
    - Retrieves courses from database. In turn calls function written by Grisdale.
- **Task [] getTasks( );**
    - Retrieves tasks from database.
- **void populateViews( );**
    - Calls getCourses( ) and getTasks( ) and populates the course views.
- **int sendEmail(String profEmail);**
    - Creates a new email composition using built-in email application.
    - Returns non-zero value if email client and account are configured on device; error code if one of two criteria above are not met
- **void launchMaps(String location);**
    - Launches the Maps Activity when a location is selected from the Scheduler.
- **void expandView(CourseView cv);**
    - Animates the expanding of a course view.

- **void collapseView(CourseView cv);**
  - Animates the collapsing of a course view.
- **void expandAll(CourseView [] cv);**
  - Expands all course views by calling expandView(cv) sequentially on each in array.
- **void collapseAll(CourseView [] cv);**
  - Collapses all course views.
- **Task addTask( );**
  - Displays dialog box to add a new task.
- **int commitAddTask(Task t);**
  - Commits a new task by writing to database. Returns zero if commit successful; non-zero otherwise.
- **Task removeTask(Task t);**
  - Displays verification dialog to remove a selected task.
- **int commitRemoveTask( );**
  - Commits a task removal from database. Returns zero if commit successful; non-zero otherwise.

Class Design Sign-off

Name	Approval Status
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