Com Package

CalendarEvent

**private** **int** id;

**protected** String title;

**protected** Date date;

**protected** **boolean** remindMe;

**protected** Date reminderDate;

**protected** String description;

**protected** String tag;

**private** **boolean** isModified;

**protected** Linker associatedPIPEntities;

**public** CalendarEvent()

**public** **void** setID(**int** id)

**public** **int** getID()

**public** **void** setTitle(String title)

**public** String getTitle()

**public** **void** setDate(Date date)

**public** Date getDate()

**public** **void** setRemindMe(**boolean** toBeReminded)

**public** **boolean** getRemindMe()

**public** **void** setReminderDate(Date date)

**public** Date getReminderDate()

**public** **void** setDescription(String description)

**public** String getDescription()

**public** **void** addLink(String objectToBeLinked, **int** idToBeLinked)

**public** **void** removeLink(String objectToBeUnlinked, **int** idToBeUnlinked)

**public** Linker getAssociatedPIPEntities()

**public** **void** setTag(String tag)

**public** String getTag(String tag)

**public** **void** setModified(**boolean** modified)

**public** **boolean** getModified()

**public** String toString()

Contact

**private** String title;

**private** **int** id;

**protected** String firstName;

**protected** String lastName;

**protected** String address;

**protected** ArrayList<String> associatedEmails;

**protected** ArrayList<String> associatedPhoneNumbers;

**protected** Date birthday;

**protected** String company;

**protected** String association;

**protected** **boolean** isEmergency;

**protected** String description;

**protected** **boolean** isModified;

**protected** String tag;

**protected** Linker associatedPIPEntities;

**public** Contact()

**public** **void** setID(**int** id)

**public** **int** getID()

**public** **void** setFirstName(String firstName)

**public** String getFirstName()

**public** **void** setLastName(String lastName)

**public** String getLastName()

**public** **void** setAddress(String address)

**public** String getAddress()

**public** **void** addEmail(String email)

**public** **void** removeEmail(String email)

**public** ArrayList<String> getAssociatedEmails()

**public** **void** addPhoneNumber(String number)

**public** **void** removePhoneNumber(String number)

**public** ArrayList<String> getAssociatedPhoneNumbers()

**public** **void** setBirthday(Date birthday)

**public** Date getBirthday()

**public** **void** setCompany(String company)

**public** String getCompany()

**public** **void** setAssociation(String association)

**public** String getAssociation()

**public** **void** setEmergency(**boolean** emergency)

**public** **boolean** getEmergency()

**public** **void** setDescription(String description)

**public** String getDescription()

**public** **void** setModified(**boolean** modified)

**public** **boolean** getModified()

**public** **void** setTag(String tag)

**public** String getTag()

**public** **void** addLink(String objectToBeLinked, **int** idToBeLinked)

**public** **void** removeLink(String objectToBeUnlinked, **int** idToBeUnlinked)

**public** Linker getAssociatedPIPEntities()

**public** String toString()

**public** **void** setTitle()

**public** String getTitle()

Course

**private** **int** id;

**protected** String title;

**protected** **int** skipTotal;

**protected** **int** skipsUsed;

**protected** Date startDate;

**protected** Date endDate;

**protected** Date meetingTime;

**protected** ArrayList<Assignment> assignments;

**protected** String tag;

**protected** Linker associatedPIPEntities;

**private** **boolean** isModified;

**public** Course()

**public** **void** setID(**int** id)

**public** **int** getID()

**public** **void** setTitle(String title)

**public** String getTitle()

**public** **void** setSkipTotal(**int** totalSkips)

**public** **int** getSkipTotal()

**public** **int** getSkipsUsed()

**public** **void** setStartDate(Date date)

**public** Date getStartDate()

**public** **void** setEndDate(Date date)

**public** Date getEndDate()

**public** **void** setMeetingTime(Date date)

**public** Date getMeetingTime()

**public** **void** removeAssignment(Assignment oldAssignment)

**public** ArrayList<Assignment> getAssignments()

**public** **void** setTag(String tag)

**public** String getTag()

**public** **void** addLink(String objectToBeLinkedTo, **int** idToBeLinkedTo)

**public** **void** removeLink(String objectToBeUnlinked, **int** idToBeUnlinked)

**public** Linker getAssociatedPIPEntities()

**public** **void** setModified(**boolean** modified)

**public** **boolean** getModified()

**public** String toString()

Note

**private** **int** id;

**protected** String title;

**protected** String body;

**protected** Date dateCreated;

**protected** Date dateModded;

**protected** **boolean** isVisible;

**protected** **boolean** isModified;

**protected** String tag;

**protected** Linker associatedPIPEntities;

**public** Note()

**public** **void** setID(**int** id)

**public** **int** getID()

**public** **void** setTitle(String title)

**public** String getTitle()

**public** **void** setBody(String body)

**public** String getBody()

**public** **void** setDateCreated(Date dateCreated)

**public** Date getDateCreated()

**public** **void** setDateModded(Date dateModded)

**public** Date getDateModded()

**public** **void** setVisible(**boolean** isVisible)

**public** **boolean** getVisible()

**public** **void** addLink(String typeToBeLinked, **int** idToBeLinked)

**public** **void** removeLink(String typeToBeUnlinked, **int** idToBeUnlinked)

**public** Linker getAssociatedPIPEntities()

**public** **void** setModified(**boolean** modified)

**public** **boolean** getModified()

**public** **void** setTag(String tag)

**public** String getTag()

**public** String toString()

PIPEntity

**private** **int** id;

**private** String tag;

**private** String title;

**public** **void** setID(**int** id)

**public** **int** getID()

**public** **void** setTag(String tag)

**public** String getTag()

**public** **void** setTitle(String title)

**public** String getTitle()

User

**private** String username;

**private** PIPIO pipio;

**private** ArrayList<Note> notes;

**private** ArrayList<Course> courses;

**private** ArrayList<Contact> contacts;

**private** ArrayList<CalendarEvent> calendarEvents;

**private** NoteSecretary noteSec;

**private** CourseSecretary courseSec;

**private** ContactSecretary contactSec;

**private** EventSecretary calendarEventsSec;

**public** User(String \_username)

**public** String getUsername()

**public** **void** onLogin()

**public** **void** onLogout()

**public** **void** loadData()

**public** **void** saveData()

**public** **void** initializeSecretaries()

**public** **void** disposeUserEnvironment()

**public** **void** newNote(Note note)

**public** **void** newCourse(Course course)

**public** **void** newContact(Contact contact)

**public** **void** newCalendarEvent(CalendarEvent calendarEvent)

**public** **void** deleteNote(**int** id)

**public** **void** deleteCourse(**int** id)

**public** **void** deleteContact(**int** id)

**public** **void** deleteCalendarEvent(**int** id)

**public** String[] getNoteTags()

**public** String[] getCourseTags()

**public** String[] getContactTags()

**public** String[] getCalendarEventTags()

**public** PIPEntity getEntityById(**int** id)

**public** **boolean** idIsAvailable(**int** id)

**public** ArrayList<Note> getNotes()

**public** ArrayList<Course> getCourses()

**public** ArrayList<Contact> getContacts()

**public** ArrayList<CalendarEvent> getCalendarEvents()

**public** ArrayList<PIPEntity> searchByTitle(String title)

Assignment

**public** Assignment()

**public** **void** addLink(**int** id)

**public** **void** removeLink(**int** id)

**public** Linker getAssociatedPIPEntities()

AddAssignmentFrame

**private** **int** WIDTH;

**private** **int** HEIGHT;

**private** JLabel eventTitleLabel;

**private** JLabel dateLabel;

**private** JLabel reminderLabel;

**private** JLabel descriptionLabel;

**private** JTextField eventTitleField;

**private** JTextField dateDayField;

**private** JTextField dateMonthField;

**private** JTextField dateYearField;

**private** JTextField reminderField;

**private** JTextArea descriptionField;

**private** JButton linkButton;

**private** JButton addButton;

**private** JButton editButton;

**private** ArrayList<Assignment> eventCollectionToAddTo;

**public** AddAssignmentFrame(ArrayList<Assignment> eventCollection)

**private** **void** initComponents()

**private** **void** setSizes()

**private** **void** populateFields(Assignment cal)

**public** **void** switchContext(String toBeSwitched)

**public** **void** editSelected(Assignment cal)

**private** **void** makeNotEditable(**boolean** editNeeded)

GUI PACKAGE STARTS HERE

AddCalendarEventFrame

**private** **int** WIDTH;

**private** **int** HEIGHT;

**private** JLabel eventTitleLabel;

**private** JLabel dateLabel;

**private** JLabel reminderLabel;

**private** JLabel descriptionLabel;

**private** JTextField eventTitleField;

**private** JTextField dateDayField;

**private** JTextField dateMonthField;

**private** JTextField dateYearField;

**private** JTextField reminderField;

**private** JTextArea descriptionField;

**private** JButton linkButton;

**private** JButton addButton;

**private** JButton editButton;

**private** ArrayList<CalendarEvent> eventCollectionToAddTo;

**public** AddCalendarEventFrame(ArrayList<CalendarEvent> eventCollection)

**private** **void** initComponents()

**private** **void** setSizes()

**private** **void** populateFields(CalendarEvent cal)

**public** **void** switchContext(String toBeSwitched)

**public** **void** editSelected(CalendarEvent cal)

**private** **void** makeNotEditable(**boolean** editNeeded)

AddContactFrame

**private** **int** WIDTH;

**private** **int** HEIGHT;

**private** JLabel firstNameLabel;

**private** JLabel lastNameLabel;

**private** JLabel addressLabel;

**private** JLabel birthdayLabel;

**private** JLabel companyLabel;

**private** JLabel associationLabel;

**private** JLabel emergencyLabel;

**private** JLabel descriptionLabel;

**private** JTextField firstNameField;

**private** JTextField lastNameField;

**private** JTextField addressField;

**private** JTextField birthdayDayField;

**private** JTextField birthdayMonthField;

**private** JTextField birthdayYearField;

**private** JTextField companyField;

**private** JTextField associationField;

**private** JTextField emergencyField;

**private** JTextArea descriptionField;

**private** JButton addButton;

**private** JButton editButton;

**private** JButton linkButton;

**private** ArrayList<Contact> contactCollectionToAddTo;

**private** Contact editingContact;

**public** AddContactFrame(ArrayList<Contact> contactCollection)

**private** **void** initComponents()

**private** **void** setSizes()

**private** **void** populateFields(Contact con)

**public** **void** switchContext(String toBeSwitched)

**public** **void** editSelected(Contact con)

**private** **void** makeNotEditable(**boolean** editNeeded)

AddCourseFrame

**private** **int** WIDTH;

**private** **int** HEIGHT;

**private** JLabel titleLabel;

**private** JLabel skipsLabel;

**private** JTextField titleField;

**private** JTextField skipsField;

**private** JButton addButton;

**private** JButton linkButton;

**private** JButton editButton;

**private** ArrayList<Course> collectionToAddTo;

**public** AddCourseFrame(ArrayList<Course> courseCollection)

**private** **void** initComponents()

**public** **void** setSizes()

**private** **void** populateFields(Course c)

**public** **void** switchContext(String toBeSwitched)

**public** **void** editSelected(Course c)

**private** **void** makeNotEditable(**boolean** editNeeded)

AddNoteFrame

**private** User loggedInUser;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**private** JLabel titleLabel;

**private** JLabel bodyLabel;

**private** JTextField titleField;

**private** JTextArea bodyField;

**private** JButton addButton;

**private** JButton linkButton;

**private** ArrayList<Note> collectionToAddTo;

**public** AddNoteFrame(User loggedIn)

**private** **void** initComponents()

**private** **void** setSizes()

AddUserFrame

**private** JTextField userField;

**private** JLabel lblUsername;

**private** JButton createNewUser;

**private** LoginFrame parent;

**public** AddUserFrame(LoginFrame parent)

**public** **void** actionPerformed(ActionEvent arg0)

ContactsView

**private** JTextField contactSearch;

**private** JScrollPane contactList;

**private** JTextPane contactView;

**private** JButton searchContacts;

**private** JButton addContact;

**private** JButton deleteContact;

**private** JButton editContact;

**private** JButton detailedContact;

**private** Dimension parentWindowSize;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**public** ContactsView(Dimension d)

**public** **void** initComponents()

**public** **void** setSizes()

**public** **void** resize(Dimension d)

CoursesView

**private** JTextField coursesSearch;

**private** JScrollPane courseList;

**private** JTextPane courseView;

**private** JButton searchCourses;

**private** JButton addCourse;

**private** JButton deleteCourse;

**private** JButton editCourse;

**private** JButton detailedCourse;

**private** Dimension parentWindowSize;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**public** CoursesView(Dimension d)

**public** **void** initComponents()

**public** **void** setSizes()

**public** **void** resize(Dimension d)

DetailAssignmentFrame

**public** DetailAssignmentFrame(ArrayList<Assignment> assignmentCollection, Assignment toBeViewed)

DetailCalendarEventFrame

**public** DetailCalendarEventFrame(ArrayList<CalendarEvent> eventCollection, CalendarEvent toBeViewed)

DetailContactFrame

**public** DetailContactFrame(ArrayList<Contact> contactCollection, Contact toView)

DetailCourseFrame

**public** DetailCourseFrame(ArrayList<Course> courseCollection, Course toBeViewed)

DetailedNoteFrame

**public** DetailedNoteFrame(Note toBeViewed)

EditAssignmentFrame

**public** EditAssignmentFrame(ArrayList<Assignment> assignmentCollection, Assignment toBeEdited)

EditCalendarEventFrame

**public** EditCalendarEventFrame(ArrayList<CalendarEvent> eventCollection, CalendarEvent toBeEdited)

EditContactFrame

**public** EditContactFrame(ArrayList<Contact> contactCollection, Contact toBeEdited)

EditCourseFrame

**public** EditCourseFrame(ArrayList<Course> courseCollection, Course toBeEdited)

EditNoteFrame

**private** **int** WIDTH;

**private** **int** HEIGHT;

**private** JLabel titleLabel;

**private** JLabel bodyLabel;

**private** JTextField titleField;

**private** JTextArea bodyField;

**private** JButton editButton;

**private** JButton linkButton;

**private** Note toBeEdited;

**public** EditNoteFrame(Note toBeEdited)

**private** **void** initComponents()

**private** **void** setSizes()

**protected** **void** setEditable(**boolean** editable)

**public** **static** **void** main(String[] args)

EventsView

**private** JTextField eventSearch;

**private** JScrollPane eventList;

**private** JTextPane eventView;

**private** JButton searchEvents;

**private** JButton addEvent;

**private** JButton deleteEvent;

**private** JButton editEvent;

**private** JButton detailedEvent;

**private** Dimension parentWindowSize;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**public** EventsView(Dimension d)

**public** **void** initComponents()

**public** **void** setSizes()

**public** **void** resize(Dimension d)

GeneralFrame

**public** GeneralFrame()

LoginFrame

**private** JButton loginUserButton;

**private** JButton createNewUserButton;

**private** JScrollPane userListContainer;

**private** JList userList;

**private** LoginFrame current;

**public** LoginFrame()

**public** **void** actionPerformed(ActionEvent arg0)

**public** **void** actionPerformed(ActionEvent arg0)

NewMainView

**private** JScrollPane upcomingAssignments;

**private** JTextPane componentView;

**private** JScrollPane detailView;

**private** JButton skip;

**private** Dimension parentWindowSize;

**private** User loggedInUser;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**public** NewMainView(User loggedIn, Dimension d)

**public** **void** initComponents()

**public** **void** setSizes()

**public** **void** resize(Dimension d)

NotesView

**private** User loggedInUser;

**private** JTextField noteSearch;

**private** JScrollPane noteList;

**private** JTextPane noteView;

**private** JButton searchNotes;

**private** JButton addNote;

**private** JButton deleteNote;

**private** JButton editNote;

**private** JButton detailedNote;

**private** JList jListOfNotes;

**private** DefaultListModel noteModel;

**private** ListSelectionModel selectionModel;

**private** Dimension parentWindowSize;

**private** ArrayList<Note> userNotes;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**public** NotesView(User loggedIn, Dimension d)

**public** **void** initComponents()

**public** **void** actionPerformed(ActionEvent e)

**public** **void** windowClosed(WindowEvent arg0)

**public** **void** setSizes()

**public** **void** resize(Dimension d)

PIPSkeleton

**private** User loggedInUser;

**private** PIPSkeleton curr;

**private** JTabbedPane views;

**private** NewMainView home;

**private** NotesView notes;

**private** CoursesView courses;

**private** ContactsView contacts;

**private** EventsView events;

**private** SearchView search;

**private** Dimension d;

**public** PIPSkeleton(User loggedInUser)

**public** **void** componentResized(ComponentEvent arg0)

**public** **void** initComponents()

SE\_skeleton

**private** **void** initComponents()

**private** **void** exitForm(java.awt.event.WindowEvent evt)

**private** **void** jButton18ActionPerformed(java.awt.event.ActionEvent evt)

**private** **void** jButton19ActionPerformed(java.awt.event.ActionEvent evt)

**private** **void** jButton20ActionPerformed(java.awt.event.ActionEvent evt)

**private** **void** jButton21ActionPerformed(java.awt.event.ActionEvent evt)

SearchView

**private** JTextField entitySearch;

**private** JScrollPane entityList;

**private** JTextPane entityView;

**private** JButton searchEntity;

**private** JButton addEntity;

**private** JButton deleteEntity;

**private** JButton editEntity;

**private** JButton detailedEntity;

**private** Dimension parentWindowSize;

**private** **int** WIDTH;

**private** **int** HEIGHT;

**public** SearchView(Dimension d)

**public** **void** initComponents()

**public** **void** setSizes()

**public** **void** resize(Dimension d)

UTIL PACKAGE IS HERE

ContactSecretary

**private** String tag = "";

**private** **int** name = 0;

**private** TreeMap<String, TreeMap> cabinet = **new** TreeMap<String, TreeMap>();

**private** TreeMap<String, ArrayList> index = **new** TreeMap<String, ArrayList>();

**private** TreeMap<Integer, String> IDLookup = **new** TreeMap<Integer, String>();

**public** **void** add(Contact o, **int** n, String t)

**public** String[] getTags()

**public** String[] getDrawer(String tag)

**public** **void** deleteFile(String tag, **int** name, String title)

**public** **void** deleteDrawer(String tag)

**public** Contact getFile(String tag, **int** name)

**public** **boolean** search(String tag, **int** name)

**public** **void** yesMrClinton(ArrayList<Contact> a)

**public** Contact searchByName (String title)

**public** Contact searchByID(**int** ID)

**private** **void** addToIndex(String title, String tag, **int** id)

CourseSecretary

**private** String tag = "";

**private** **int** name = 0;

**private** TreeMap<String, TreeMap> cabinet = **new** TreeMap<String, TreeMap>();

**private** TreeMap<String, ArrayList> index = **new** TreeMap<String, ArrayList>();

**private** TreeMap<Integer, String> IDLookup = **new** TreeMap<Integer, String>();

**public** **void** add(Course o, **int** n, String t)

**public** String[] getTags()

**public** String[] getDrawer(String tag)

**public** **void** deleteFile(String tag, **int** name, String title)

**public** **void** deleteDrawer(String tag)

**public** Course getFile(String tag, **int** name)

**public** **boolean** search(String tag, **int** name)

**public** **void** yesMrClintonCourses(ArrayList<Course> a)

**public** Course searchFor (String title)

**public** Course searchByID(**int** ID)

**private** **void** addToIndex(String title, String tag, **int** id)

EventSecretary

**private** String tag = "";

**private** **int** name = 0;

**private** TreeMap<String, TreeMap> cabinet = **new** TreeMap<String, TreeMap>();

**private** TreeMap<String, ArrayList> index = **new** TreeMap<String, ArrayList>();

**private** TreeMap<Integer, String> IDLookup = **new** TreeMap<Integer, String>();

**public** **void** add(CalendarEvent o, **int** n, String t)

**public** String[] getTags()

**public** String[] getDrawer(String tag)

**public** **void** deleteFile(String tag, **int** name, String title)

**public** **void** deleteDrawer(String tag)

**public** CalendarEvent getFile(String tag, **int** name)

**public** **boolean** search(String tag, **int** name)

**public** **void** yesMrClinton(ArrayList<CalendarEvent> a)

**public** CalendarEvent searchFor (String title)

**public** CalendarEvent searchByID(**int** ID)

**private** **void** addToIndex(String title, String tag, **int** id)

NoteSecretary

**private** String tag = "";

**private** **int** name = 0;

**private** TreeMap<String, TreeMap> cabinet = **new** TreeMap<String, TreeMap>();

**private** TreeMap<String, ArrayList> index = **new** TreeMap<String, ArrayList>();

**private** TreeMap<Integer, String> IDLookup = **new** TreeMap<Integer, String>();

**public** **void** add(Note o, **int** n, String t)

**public** String[] getTags()

**public** String[] getDrawer(String tag)

**public** **void** deleteFile(String tag, **int** name, String title)

**public** **void** deleteDrawer(String tag)

**public** Note getFile(String tag, **int** name)

**public** **boolean** search(String tag, **int** name)

**public** **void** yesMrClintonNotes(ArrayList<Note> a)

**public** Note searchByName (String title)

**public** Note searchByID(**int** ID)

**private** **void** addToIndex(String title, String tag, **int** id)

EmergCheck

**public** **boolean** isEmerg (String checkString)

Filter

**private** **static** String goodAscii = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789\_";

**public** **static** **boolean** userFilter(String data)

**public** **static** String shortenDescription(String description)

**public** **static** **boolean** isEmerg (String checkString)

**public** **static** **boolean** isNumOnly(String checkString)

IDGenerator

**public** **static** **int** getID()

Linker

**private** **static** **final** **long** serialVersionUID = 4185349939767314107L;

**private** ArrayList<Integer> contactIds;

**private** ArrayList<Integer> eventIds;

**private** ArrayList<Integer> courseIds;

**private** ArrayList<Integer> noteIds;

**public** Linker()

**public** **void** addLink(String objectToBeLinked, **int** linkingId)

**public** **void** removeLink(String collectionToCheck, **int** linkingId)

**public** ArrayList<Integer> getContacts()

**public** ArrayList<Integer> getCalendarEvents()

**public** ArrayList<Integer> getCourses()

**public** ArrayList<Integer> getNotes()

PIPIO

**private** String slash;

**private** String username;

**private** String userDirectory;

**public** PIPIO(String \_username)

**public** **static** ArrayList<String> loadUsernames()

**public** **static** User loadUser(String username)

**public** **static** **void** createUser(User user)

**public** **static** **void** saveUser(User user)

**private** **static** **void** createPIPFolder()

**private** **static** String getPIPDirectory()

**private** **static** String getUserDirectory(String username)

**private** **static** String getSlashType()

**private** String getDirectoryToEntity(PIPEntity obj)

**private** String getPathToEntity(PIPEntity obj)

**private** **void** saveObject(PIPEntity obj)

**private** **void** deleteObject(PIPEntity obj)

**private** **void** deleteObject(**int** id, String type)

**public** **void** saveNote(PIPEntity obj)

**public** **void** saveCourse(PIPEntity obj)

**public** **void** saveContact(PIPEntity obj)

**public** **void** saveCalendarEvent(PIPEntity obj)

**public** **void** saveNotes(ArrayList<Note> notes)

**public** **void** saveCourses(ArrayList<Course> courses)

**public** **void** saveContacts(ArrayList<Contact> contacts)

**public** **void** saveCalendarEvents(ArrayList<CalendarEvent> events)

**public** **void** deleteNote(**int** id)

**public** **void** deleteCourse(**int** id)

**public** **void** deleteContact(**int** id)

**public** **void** deleteCalendarEvent(**int** id)

**public** ArrayList<Note> loadNotes()

**public** ArrayList<Course> loadCourses()

**public** ArrayList<Contact> loadContacts()

**public** ArrayList<CalendarEvent> loadCalendarEvents()