Project Scheduling System

Zodah Team

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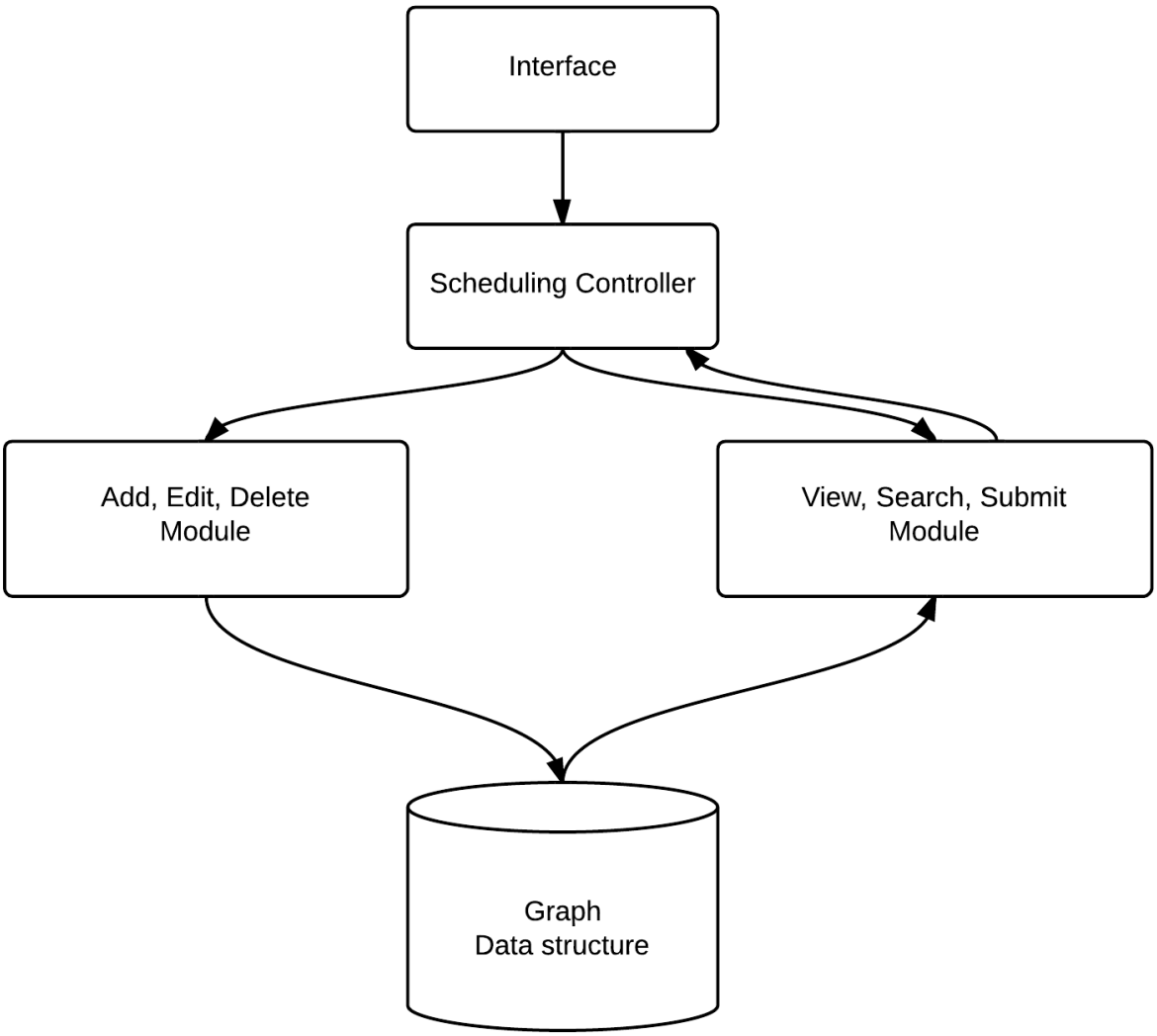
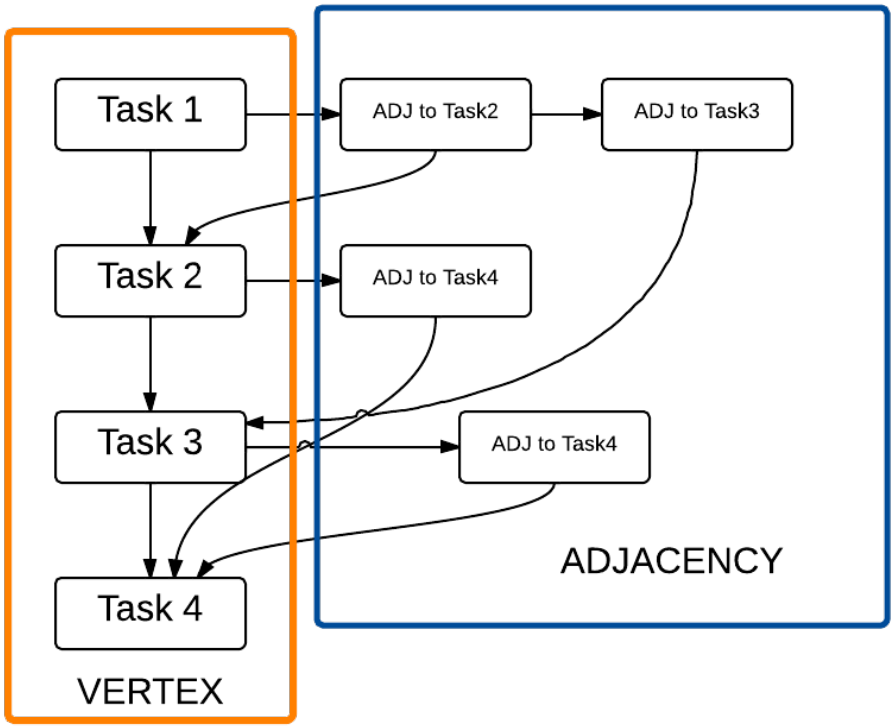
Abstract

Project Scheduling System, this is program use for manage your project, save your time. There are 3 big advantages in this program. First, you can create edit or delete project and task. That is to say, it's very easy to manage your project and keep your project continue all day. Next, this program can calculate your final day of your project. This mean, this program will get your duration for every task that you use to do and calculate them for you. Finally, you can work as a team. That is, you can assign task to your team to make your project work more smooth and faster. In conclusion, this program can help you finish your project in time.

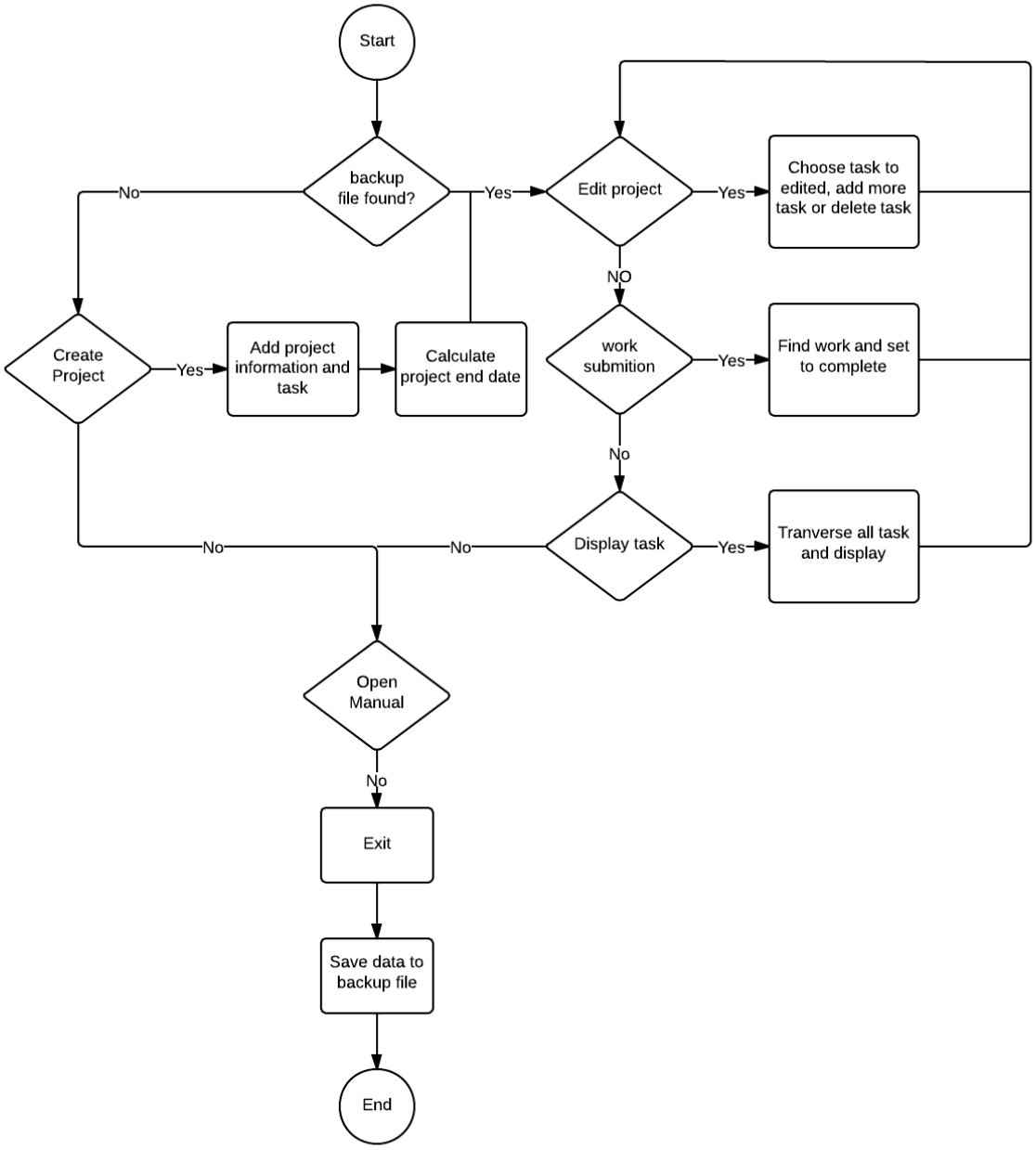
Architecture diagram



Data structure diagram



Top Flow Chart



Pseudocode for major algorithms

```
PROCESS : checkNetworkConnect
   set current task be the first task
   while current task is not equal to null
      if task is not equal to the tail of the list
         PROCESS: isReachable
         if is not reachable
            if this task is not have an adjacent
               ask user to connect the vertices manually or automatically
               while choice is valid
                  if choice is automatically
                     PROCESS: addEdge
                  else
                     PROCESS: addTaskRequired
                  end if
               end loop
            end if
         end if
      else
         status of this function equal to 2
      end if
   go to the next task
   end loop
   return status.
end process.

PROCESS : addTaskRequire
   while task name is not “DONE”
      ask user a name of the required task
      if user not input DONE
         find task that user input
         if required task found
            add that required task to the task
         end if
      end if
   end while
   PROCESS: setStatus
end process.

PROCESS : setStatus
   find task
   if task found
      if it doesn’t have incidence
         set status to “in_progress”
      else
         set status to “incomplete”
      end if
   end if
end process.
```

PROCESS : findTaskSubmit

```
check the task from other function
if task is already have
    set current task be the first task
    while current task is not equal to null
        if current task is equal to the input task and done status is incomplete
            set status to complete
        end if
        go to the next task
    end loop
end if
end process.
```

PROCESS : calculateEndDate

```
read holiday
set current task to the first task
while current task is not equal to null
    sum the duration of the task
    go to the next task
end loop
read today date
minus the duration if the day is not weekday and holiday
display the end date to the screen
end process.
```