CSE 222/505

Project Proposal

Project Management And Planning System

Group-7

1) Group Members

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2)   Problem Definition

People often have organizing problems while working in groups. They need a system to be more efficient in organizing their issues to achieve what they are working on. To achieve better consistency and quicken decision making the system needs a leader or in other words a project manager. Project managers should have an ability to distribute the issues to the group members to prevent misunderstanding and overdoing one issue by multiple members. Since some issues are more urgent than others, the project manager needs to be able to assign priority levels to issues. And since in a company or group there may be multiple projects there should be an overseer for all projects such as an admin. Admin should be able to create projects and issues in these projects.

Although the project issues can be distributed and drawn on desk or paper, for the project to be accessible from anywhere it must be implemented on the online platform. Tasks should have statuses that may be changed by people that were assigned to it or project manager for tracking project development. People also may want to know each other's progress on their assigned issues, so we must provide the solution for them to be able to do that. These solutions may be a calendar which shows a timeline of the entire project, a Kanban which can ease interaction with tasks and a Reports to record progress for each individual or team working on their task. And people working on the same issue must divide it into child-issues and need to communicate with each other to know each other's progress on assigned child-issues. That's why the system should provide a comment section for each issue.

People may participate in multiple projects and that's why they need to have a Projects page to see all their projects they are working on.

In general the project management system is a must have for any company or group of people aiming to develop or create their own project. And the bigger the project and group is the bigger the need for such a system they have. Especially nowadays when everything gets faster with new technologies and you should keep up to that speed.

3)   Users Of The System

Admin

· System's unique user.

· Can create/delete users (project manager, project member, board member, guest), projects, issues.

· Can change projects state from verified to done.

· Can assign projects to a project manager.

· Can create and edit profiles.

Project Manager

· Main users of specific projects.

· Can create/delete issues.

· Can change the project's state from in review to verified.

· Can assign issues to users.

· Can set priority and deadline of issues.

Board Member

· Users who are assigned to a specific board.

· Can change the project's state from "selected for development" to "in progress".

· Can change the project's state from in progress to in review.

· Can edit the issue title.

· Can add comments to issues.

· Can only edit/view their board on the project.

Project Member

- Users who are assigned to a specific project.

- Can change the project's state from "selected for development" to "in progress".

- Can change the project's state from in progress to in review.

- Can edit the issue title.

- Can add comments to issues.

- Can edit/view their board on the project.

- Can view other boards on the project.

Guest

- Non-users of the system.

- Can view a specific board if permitted by the admin of the system.

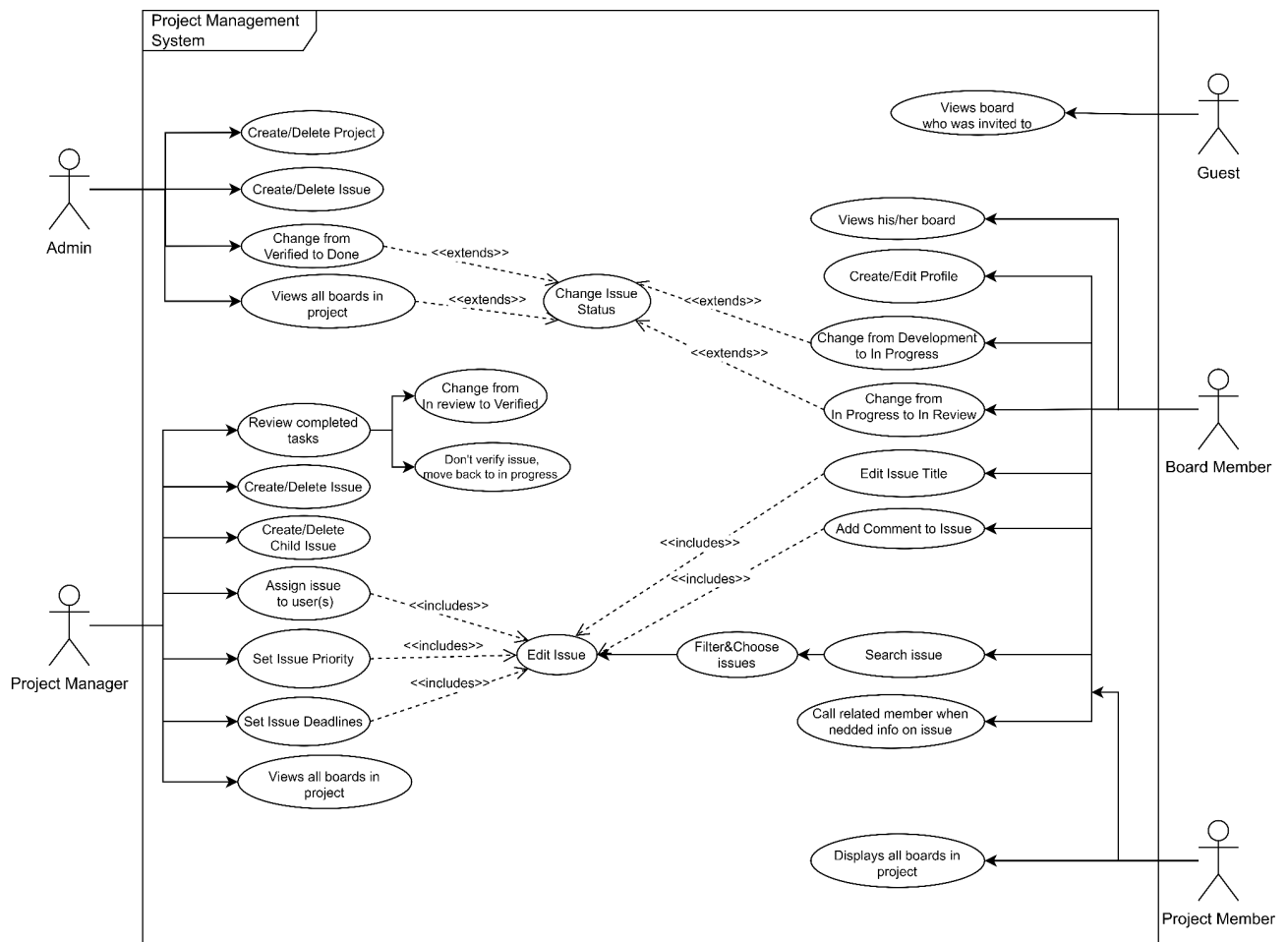# 4) Requirements

4.1) Functional Requirements

Requirement ID	Description Of The Requirements
FR1	Admin must be able to create projects.
FR2	Admin must be able to create issues.
FR3	Project manager must be able to assign Issues to users.
FR4	Project must have a Name, Key (like abbreviation), Type and Lead (Company Name) .
FR5	Issues must have an id (Key – Issue Number).
FR6	Issues must have an assignee and reporter user.
FR7	Issues must have a title, comment, history and description sections.
FR8	Issues must have created and updated time.
FR9	The comment section must have edit and delete options.
FR10	Issues must have child-issues.
FR11	Issues must have priority (highest, high, medium, low, lowest).
FR12	Issues must have types like bug, task, sub-task, story, epic (Epic issues, which represent high-level initiatives or bigger pieces of work in Jira. For software teams, an epic may represent a new feature they're developing. For IT service teams, epics may represent a major service change or upgrade.).
FR13	System must have Projects section (projects list).
FR14	System must have Planning Section and Development Section.
FR15	Planning section must have Board, Issues, and Components (like hardware, software, mechanics etc.).
FR16	Board section must have a Kanban Board, Backlog and Reports
FR17	Kanban board must have the filters like show only my issues and recently updated.
FR18	Development section must have source code and releases sections.
FR19	Releases section must have version, status, progress, start date, release date and a description.

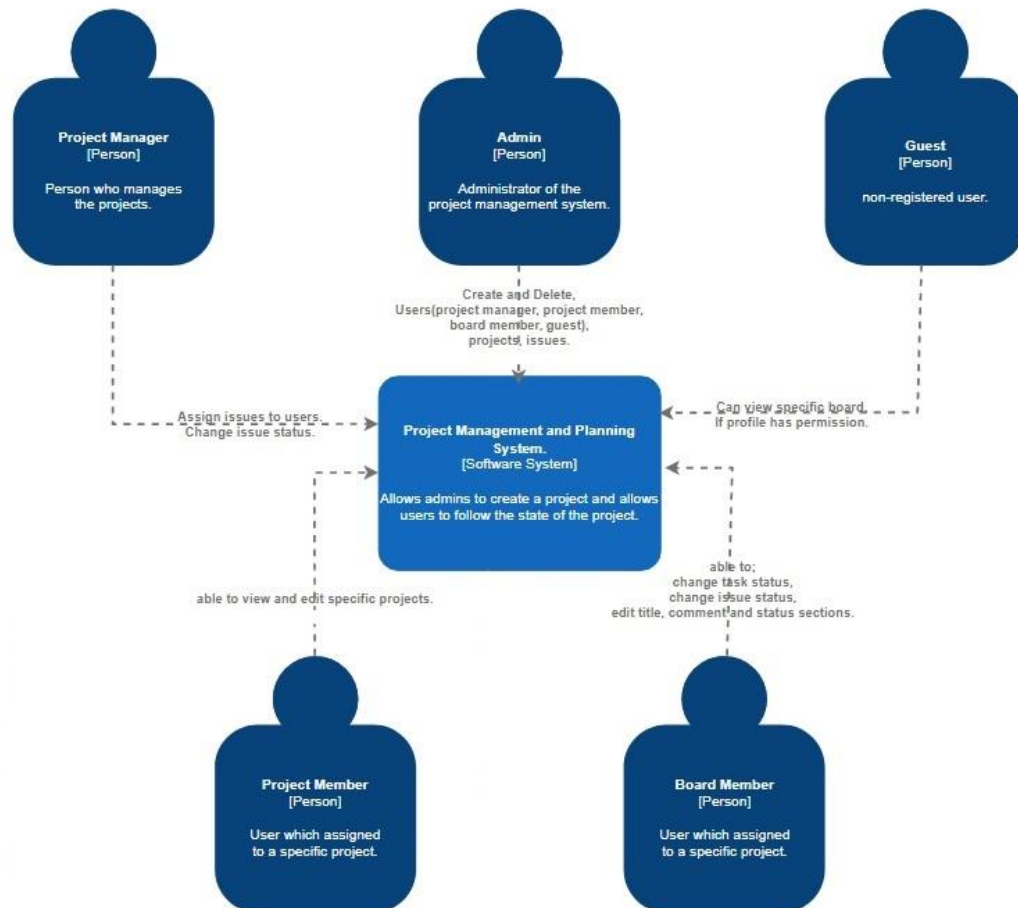|	
FR20	Kanban board must have selected for development, in progress, in review, need info, and verified and done section.
FR21	Users must have a profile that must have about, contact, and teams sections.
FR22	Users must be able to edit title, comment and status sections.
FR23	Users must be able to change the task status from selected from development to in progress and assign them to project manager
FR24	Users must be able to change the issue status from in progress to in review and need info, if user changes status to in review, it must be assigned to project manager, if it is changed to need info, issue must be assigned to the referred user who has the info.
FR25	Project manager must be able to change the issue status from in review to "verified". If it's not verified, then the manager can move back the issue to "in progress".
FR26	Admin should give permission to guests.
FR27	Project may have multiple kanban boards.
FR28	Project member can see all of the kanban boards.
FR29	Project member is also a board member of his/her board. But the project member cannot edit other than his/her board.
FR30	Board member can see and edit only his/her board. (freelancer etc.)
FR31	Guests can only view the board he was assigned to and can be assigned to issues.(Intern etc.)

4.2) Non-Functional Requirements

Requirement ID	Description Of The Requirements
NFR1	JavaSE13 or higher should be installed and running properly.
NFR2	System can operate on any hardware. The user is not in charge of any leaks in security if user decides to change their hardware or their operating system.
NFR3	System is user-friendly so a new user can learn easily.
NFR4	Initial installation of the system should be done by professionals.

5)   Use-Case Diagrams

6) C4 Models

I. System Context Diagram:

II. Container Diagram: