CHAPTER - 6
RESULT AND DISCUSSION

From the analysis of the several of articles of distributed software systems and from the present study, eight risk areas (RA1 to RA8) are existing they are RA1 – Task Distribution, RA2 – Knowledge Management, RA3 – Geographical Distribution, RA4 – Collaboration Structure, RA5 – Cultural Distribution, RA6 – Stakeholder Relation, RA7 – Communicational Infrastructure and RA8 – Technology Setup. Proposed new four risk areas (RA9 to RA12) are RA9 – Loss of Team coherence, RA10 – Coordination Breakdowns, RA11 – Time Zone Difference and RA12 – Developers skill development training. The risk possibilities of the risk areas denoted ranges in to Low (1 – 5), Medium (6 – 10 and High (11 – 15). On the basis of the impact of risk areas, they are categorized.

Figure 6.1: Risk Categorization
The first added risk area is Loss of team coherence. Team must be coordinate with themselves for the success of the system. To increase the team spirit and motivating the team to achieve good task completion, the project manager tries to reduce the negative thoughts about the project.

![Diagram](attachment:image.png)

**Figure 6.2: Team Coherence**

The next proposed risk area is Coordination breakdowns. Here the coordination is separated in to three types. By these three types of coordination’s the coordination breakdowns are minimized. Internal, External behaviors are used determined the organization capacity. The customer and the organizations break downs are minimized by the communications between the units of the organization and end users. Vertical and horizontal coordination breakdowns are controlled by the proper communication between the top, middle, low levels of management. To promote the coordination between the team members, the work charts are used to store ongoing task of the members. The work charts are controlled by the project manager and it can be easily access by all the members of teams. The procedural values of the task units are stored in database for the future use.
The time zone difference is the main proposed risk area, which is having the greatest impact on the coordination of the distributed software system. Face to Face meetings in a common work place is not possible in the distributed software development. The virtual face to face meeting can be easily done by the internetworking. Each of the several different zones makes the difference in timings. Coordinating the different zone team members is a difficult process. Knowing of the time zone difference around the world is needed. So we propose a web tools for the successful meeting in distributed environments. The time charts is prepared by selecting the date, month, year of the meeting. The location of the team members are selected from the list of cities. Distributed teams members are dispersed in various locations. If the project manager wants to include the additional location by clicking the “Add location” button. Finally by clicking the “Show timetable” button the possible time table charts are displayed.

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organization capacity. The customer and the organizations break downs are minimized by the communications between the units of the organization and end users. Vertical and horizontal coordination breakdowns are controlled by the proper communication between the top, middle, low levels of management. To promote the coordination between the team members, the work charts are used to store ongoing task of the members. The work charts are controlled by the project manager and it can be easily access by all the members of teams. The procedural values of the task units are stored in database for the future use. The substantive coordination of the organization having the relation in between contents and its relation.