



INTERNET RELAY CHAT CLIENT

PROJECT CHARTER

LITE Version <1.0>
<08/30/2023>

VERSION HISTORY

| Version # | Implemented By | Revision Date | Approved By | Approval Date | Reason |
|-----------|--|---------------|-------------|---------------|---------------|
| 1.0 | Rayl Morris, Devna Joshi, Marianne Strauss, Addison Garza | 9/15/2023 | | | Initial Draft |
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UP Template Version: 11/30/06

| Project Charter | |
|--------------------------------------|-------------------------------|
| Full Template | Lite Template |
| Introduction | |
| Purpose of Project Charter | |
| Project and Product Overview | Project and Product Overview |
| Justification | |
| Business Need | |
| Public Health/Business Impact | |
| Strategic Alignment | |
| Scope | Scope |
| Objectives | Objectives |
| High-Level Requirements | High-Level Requirements |
| Major Deliverables | Major Deliverables/Milestones |
| Boundaries | |
| Duration | Duration |
| Timeline | Timeline |
| Executive Milestones | |
| Budget Estimate | Budget Estimate |
| Funding Source | Funding Source |
| Estimate | Estimate |
| High-Level Alternatives Analysis | |
| Assumptions, Constraints and Risks | |
| Assumptions, Constraints and Risks | |
| Constraints | |
| Risks | |
| Project Organization | |
| Roles and Responsibilities | |
| Stakeholders (Internal and External) | |

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1 INTRODUCTION

1.1 PURPOSE OF LITE PROJECT CHARTER

The Internet Relay Chat LITE Project Charter documents and tracks the necessary information required by decision maker(s) to approve the project for funding.

The intended audience of the Internet Chat Relay LITE Project Charter is the TA and professor.

2 PROJECT AND PRODUCT OVERVIEW

The goal of this project is to implement an Internet Relay Chat client pursuant to the IRC Protocol specified in RFC 1459 and updated by RFCs 2810, 2812, and 2813.

IRC is a text-based conferencing protocol designed to support one-to-one conversations between 2 clients and one-to-many conversations through lists and groups/channels. As such, a client should be able to send and receive messages and, to a limited extent, view conversation histories.

This client will be capable of communicating with servers in the same network according to the relevant RFCs. The client will be developed over the course of the Fall 2023 semester at CU Denver. This is a period of about 12 weeks, to be completed by December 6, 2023. More detail is provided in section 4.1. The budget is currently set at \$600,000. More detail is provided in section 5.

3 SCOPE

3.1 OBJECTIVES

The objectives of the Internet Relay Chat are as follows:

- Text based conferencing
- single process(the server) forming a central point for clients (or other servers) to connect to, performing the required message delivery/multiplexing and other functions
- develop a client implementation of their assigned subsystem and the entire class will perform integration testing on the resulting IRC network.

3.2 HIGH-LEVEL REQUIREMENTS

The following table presents the requirements that the project's product, service or result must meet in order for the project objectives to be satisfied.

| Req. # | Requirement Description |
|--------|-----------------------------|
| 1 | Implementing a NICK command |
| 2 | One-to-One conversations |
| 3 | One-to-Many Conversations |
| 4 | View chat history |

3.3 MAJOR DELIVERABLES/MILESTONES

| Major Deliverable | Deliverable Description |
|-----------------------|---|
| Connect to server | Be able to connect to a server |
| Sending and receiving | Send and receive messages from server |
| Integration testing | Be able to connect and integrate with servers and receives of the whole class |

4 DURATION

4.1 TIMELINE

| <i>Objective</i> | <i>Duration</i> | <i>Estimated Date</i> |
|-----------------------------|-----------------|-----------------------|
| Project Planning | 2 weeks | 9/15/2023 |
| Requirements Analysis | 2 weeks | 9/25/2023 |
| Develop Prototype | 2 weeks | 10/16/2023 |
| Test Prototype | 2 weeks | 11/8/2023 |
| System Development Complete | 4 weeks | 12/6/2023 |

5 BUDGET ESTIMATE

5.1 FUNDING SOURCE

Funding will primarily be sourced from the Operational budget provided by the Foundation for Another IRC Client.

5.2 ESTIMATE

Budget is currently set at 600,000.00 for the project. Additional funding support may

be required in the future.

6 PROJECT CHARTER APPROVAL

The undersigned acknowledge they have reviewed the **LITE Project Charter** and authorize and fund the Internet Relay Chat project. Changes to this **LITE Project Charter** will be coordinated with and approved by the undersigned or their designated representatives.

| | | | |
|-------------|---------------------------|-------|----------------|
| Signature: | <u>Rayl Joseph Morris</u> | Date: | <u>9/15/23</u> |
| Print Name: | <u>Rayl Morris</u> | | |
| Title: | <u>Team Lead</u> | | |
| Role: | <u>Project Manager</u> | | |

| | | | |
|-------------|---------|-------|---------|
| Signature: | <u></u> | Date: | <u></u> |
| Print Name: | <u></u> | | |
| Title: | <u></u> | | |
| Role: | <u></u> | | |

| | | | |
|-------------|---------|-------|---------|
| Signature: | <u></u> | Date: | <u></u> |
| Print Name: | <u></u> | | |
| Title: | <u></u> | | |
| Role: | <u></u> | | |

APPENDIX A: REFERENCES

The following table summarizes the documents referenced in this document.

| Document Name and Version | Description | Location |
|-----------------------------------|---|---|
| Internet Relay Chat: Architecture | It describes the architecture of the current IRC protocol and the role of its different components. | https://ucdenver.instructure.com/courses/514530/files/folder/Assignments? |

APPENDIX B: KEY TERMS

[Insert terms and definitions used in this document. Add rows to the table as necessary. Follow the link below to for definitions of project management terms and acronyms used in this and other documents.

<http://www2.cdc.gov/cdcup/library/other/help.htm>

The following table provides definitions for terms relevant to this document.

| Term | Definition |
|----------------------|--|
| <i>n/a</i> | <i>[Provide definition of the term used in this document.]</i> |
| <i>[Insert Term]</i> | <i>[Provide definition of the term used in this document.]</i> |
| <i>[Insert Term]</i> | <i>[Provide definition of the term used in this document.]</i> |