Project name

RedRiver chat application. Project name is to be decided.

Customer

RedRiver
Mattias Djupdahl, info@redcode.se.
Telephone: 0733 400 407

Marco Villegas, marco.villegas@redcode.se.
Telephone: 0706880589

RedRiver is a company that works in providing consulting in the .NET-framework and C#. They offer their customers help with web development, system development and project management in web and system development projects.

Contractor

Project manager is a role that will be passed around with every new phase.

Andrew Galbraith
Role: Customer contact and requirements manager, project manager during construction.
Email: ag222hu@student.lnu.se.
Github: andygalb.

Jimmy Bengtsson
Role: Technical manager, project manager during transition.
Email: jb223pu@student.lnu.se.
Github: jimmybengtsson.

Linda Ott Olander
Role: Customer contact and requirements manager, project manager during elaboration.
Email: lo222hd@student.lnu.se.
Github: LindaOtt.

Sofia Kristiansen
Role: Test manager, project manager during inception.
Email: sk222uf@student.lnu.se.
Github: ProfessorPotatis.

Background

The project is part of the Linneaus university course 1DV611 – Software development project in a group – and made in association with the company RedRiver. RedRiver wants to have a chat application developed for mobile and tablet devices where two or more users can send text messages and pictures to one another. They wish the graphical user interface to be easy to understand and use, since the application is targeted towards a user group where some may have little or no prior experience with IT and chat applications. Base features for the application can be found in the [project vision (https://github.com/jimmybengtsson/grupp03-redriver/wiki/2-Project-vision)](https://github.com/jimmybengtsson/grupp03-redriver/wiki/2-Project-vision).

Purpose

The purpose is to work on a project with a real world customer and to solve their provided problem, in this case to develop a chat application for mobile and tablet devices. As the project is to be conducted in a group, the purpose is also to gain experience in discussing different types of solutions to the problem and to use the knowledge we've gained throughout our studies and put them to practical use.

Overall goals

The course goals is for the students to:

- Follow a standardised model for software development and conduct a project in a group.
- Write and continuously update the project documentation.
- Critically examine other projects and their documentation.
- Present the group's method and results both in written and oral form in a way adapted to the user group.

The project's overall goals is to:

- Continuously throughout the project interact with the customer
- Continuously make deliveries of the system to the customer.
- In iterations develop and deliver an application according to the customer RedRiver's requirements.

Base features for the application can be found in the [project vision (https://github.com/jimmybengtsson/grupp03-redriver/wiki/2-Project-vision)](https://github.com/jimmybengtsson/grupp03-redriver/wiki/2-Project-vision). All requirements can be found in the [product backlog (https://github.com/jimmybengtsson/grupp03-redriver/wiki/4-Product-backlog)](https://github.com/jimmybengtsson/grupp03-redriver/wiki/4-Product-backlog).

Resources

Here you'll find the resources available in the project.

Time: 720 hours.
People: 4.
Technology: [Technical documentation (https://github.com/jimmybengtsson/grupp03-redriver/wiki/9.1-Technical-documentation)](https://github.com/jimmybengtsson/grupp03-redriver/wiki/9.1-Technical-documentation).
Method for system development: Combination of Unified Process and SCRUM. Weekly iteration plans and tutor meetings. Customer meetings at least every second week.

Delivery

During every customer meeting we do a delivery of the system. Together with the customer we go through the application and get feedback on what is good and what should be worked on. The customer also mentions what features are most important to them, and what general feeling they get from the application so far.

Time plan

Presented here are the project milestones and their hard deadlines. The milestones are broken into each phase that they belong to according to the course homepage ["Projektuppgifter" (https://coursepress.lnu.se/kurs/mjukvaruutvecklingsprojekt-i-grupp/projektet/projektuppgifter/)](https://coursepress.lnu.se/kurs/mjukvaruutvecklingsprojekt-i-grupp/projektet/projektuppgifter/). A hard deadline is when something has to be done, but the milestones should preferably be done well before the deadline.

Inception phase

Iteration 0

Milestone	Description	Status	Deadline
M1	Get the project up and running; customer meeting, create wiki documentation etc.	Done	23 Mars

Deliverables: Wiki-page documentation.

Iteration 1

Milestone	Description	Status	Deadline
M2	Create vision and product backlog based on customer meeting, continue work with other documentation	Done	30 Mars

Deliverables: Wiki-page documentation, Google docs product backlog.

Iteration 2

Milestone	Description	Status	Deadline
M3	Fulfill inception major milestone	Done	6 April

Deliverables: Proof of concepts for SignalR and WebRTC. A signed vision document. The inception documentation.

Elaboration phase

Iteration 3

Milestone	Description	Status	Deadline
M4	Deliver F1, F2, F3, F4 prototypes, proof of concepts and the system thus far to the customer	Done	12 April

Deliverables: Visual prototypes for the requirements F1, F2, F3, F4. Proof of concepts. Preliminary software architecture.

Iteration 4

Milestone	Description	Status	Deadline
M5	Deliver F1, F2, F3 front end design	Done	20 April

Deliverables: F1, F2, F3 front end design.

Iteration 5

Milestone	Description	Status	Deadline
M6	Deliver F1, F2, F3, F4 full functionality to customer. The system should pass all tests, manual and with Jest/Postman. Fulfill elaboration major milestone	Done	26 April

Deliverables: F1, F2, F3, F4 full functionality and system should pass all tests.

Construction phase

Iteration 6

Milestone	Description	Status	Deadline

Milestone	Description	Status	Deadline
M7	F5,F6 basic functionality implemented on both client and server	Started	4 May

Deliverables: F5,F6 basic functionality, although this will require additional testing and refinement.

Iteration 7

Milestone	Description	Status	Deadline
M8	F5,F6 basic functionality implemented on both client and server	Started	11 May

Deliverables: F5,F6 basic functionality, although this will require additional testing and refinement.

Iteration 8

Milestone	Description	Status	Deadline
M9	F5,F6,F13 fully implemented on client and server	Started	18 May

Deliverables: F5,F6,F9 fully implemented and tested, WCAG 2.1 compliance analysed.

Transition phase

Iteration 9

Milestone	Description	Status	Deadline
M10	Final acceptance test completed and approved by customer	Not started	25 May

Deliverables: .

Iteration 10

Milestone	Description	Status	Deadline
M11	Project presentation	Not started	10:00–12:00, 30 May
M12	Documentation completed	Not started	1 or 8 June

Deliverables: .

Iteration 11

Milestone	Description	Status	Deadline
M13	Final delivery to customer	Not started	1 or 8 June
M14	Examination, deadline for submission	Not started	12 June

Deliverables: .

Approximation

At this moment it is difficult to do a size approximation of the project, such as lines of code, classes, use cases or number of functions. The current requirements are still subject for change due to client communication and time restrictions.

Communication plan

The main communication is done through our own Slack-channel since everyone in the group is taking this course off campus.

We will have weekly group meetings using Slack calls. Time for these meetings are decided in the group Slack-channel.
We will have weekly tutor meetings with Tobias Ohlsson using Slack calls. These are held every tuesday at 9:00.
Additional group meetings can be decided in the group Slack-channel.

Communication with the customer is done on a weekly basis through emails and by weekly or bi-weekly Google Hangouts. These Google Hangouts are booked via email correspondence with the customer.

Project organisation

Roles

Customer: RedRiver.
Tutor: Tobias Ohlsson.
Project manager: Alternating every new phase.
Inception project manager: Sofia Kristiansen.
Elaboration project manager: Linda Ott Olander.
Construction project manager: Andrew Galbraith.
Transition project manager: Jimmy Bengtsson.
Customer contact and requirements manager: Andrew Galbraith and Linda Ott Olander.
Technical manager: Jimmy Bengtsson.
Test manager: Sofia Kristiansen.

Version control

Version control for our Google Docs sheet product backlog can be found in the [wiki product backlog (https://github.com/jimmybengtsson/grupp03-redriver/wiki/4-Product-backlog#google-docs)](https://github.com/jimmybengtsson/grupp03-redriver/wiki/4-Product-backlog#google-docs).

Version control for our source code in the Github repo can be found in the Github repo [README.md (https://github.com/jimmybengtsson/grupp03-redriver/blob/master/README.md)](https://github.com/jimmybengtsson/grupp03-redriver/blob/master/README.md).