



JAMES COOK
UNIVERSITY
AUSTRALIA

CP5046 ICT Phase - 2

Assessment TASK 1: Cycle Report

Lecturer: Laura Antochi

Team Members:

| | |
|--------------------|--------------|
| Anastasia Verchak | ID: 13446694 |
| Charanpreet Kaur | ID: 13543377 |
| Harshitha Paderu | ID: 13539782 |
| Rajendra Manandhar | ID: 13530874 |

Roles and Contributions:

| Name | Project role(s) | Individual contributions |
|--------------------|-------------------------|--|
| Anastasia Verchak | Project manager, tester | <ul style="list-style-type: none"> - Client agreement - Prototypes - Communication with the client - White box testing - Project management tools - Documentation - Client testing acceptance form - Client acceptance form - Front end design - Moodle developing |
| Charanpreet Kaur | Front-End Developer | <ul style="list-style-type: none"> - Configuration management - Front-end development |
| Harshitha Paderu | Back-End Developer | <ul style="list-style-type: none"> - Burn down and velocity charts - Steps for new member to setup database and hosting environment - Development tools - phpmyadmin, hosting environment - WinSCP - Back end development - Documentation Proof-reading and editing |
| Rajendra Manandhar | Front-End Developer | <ul style="list-style-type: none"> - Front-end developing - Bugs fixing |

According to the results of Beta release, new Final plan had been created and accepted by the both sides.

Romashka is a fully functional web based application designed to fulfill the needs of the Russian Language School located at 6 Lawson Street, Southport, Queensland. This web application allows users (Students and Staff) to sign up into the student portal designed for intuitive teaching and learning process where they can see the subjects they have been enrolled, edit and update their profile, upload assignments and check the similarities between the students to avoid plagiarism with the help of online portal named Moodle. Apart from this there will be an admin portal where the admin of the Romashka Russian Language School can logged in with given credentials. Admin will have its own dashboard where admin can see the details of students, teachers, subjects as well as flexibility of adding new staff members (teachers) and subjects as per the needs of the school.

Alpha version of Romashka was released in ICT 1 where some of the webpages were completed like Home Page, login and Registration. There were some issues regarding the user interface of the web application which we were unable to be fixed because of the time limitation.

The beta iterations as planned earlier are listed below:

Beta release proposal

According to the results of Alpha release, new Beta plan had been created and accepted by the both sides.

| Title | Description | Client Priority | Time estimate (days) |
|------------------------|---|-----------------|----------------------|
| Bug fixing | See AlphaTestReport.pdf | 10 | 5 |
| Confirmation page | presents the total amount to be paid | 20 | 5 |
| Payment page | process the payment | 20 | 5 |
| Subject Selection page | Students can enroll by choosing the subjects for the first time and confirm their enrollment | 20 | 5 |
| Edit Selection page | Edit the choices of subjects (withdrawing, changing of subjects) | 20 | 5 |
| Dashboard | Student has an access to his study activities | 10 | 5 |
| Contact us page | Access to the contact details of the school to find its location, phone number for any queries. | 20 | 2 |
| Why we page | Access to the information about the school involving teaching programs, events,etc. | 20 | 5 |

Actual Beta release

| Title | Description | Client Priority | Time estimate (days) |
|------------------------|--|-----------------|----------------------|
| Bug fixing | See AlphaTestReport.pdf | 10 | 5 |
| Enrollment | As an Admin, I want to enrol students to the subject so that a student could study | 10 | 3 |
| Creating a user | As an Admin, I want to create a user so that a student or a teacher could have an access to the Moodle | 10 | 3 |
| Creating a subject | As an Admin, I want to create a new subject so that a student could study that subject in the future | 10 | 3 |
| Assign role to a user | As an Admin, I want to assign role (student, teacher) to a user so that the website would be protected | 10 | 3 |
| Subject Selection page | Students can enroll by choosing the subjects for the first time and confirm their enrollment | 20 | 5 |
| Edit Selection page | Edit the choices of subjects (withdrawing, changing of subjects) | 20 | 5 |
| Dashboard | Student has an access to his study activities | 10 | 5 |
| Contact us page | Access to the contact details of the school to find its location, phone number for any queries. | 20 | 2 |
| Why we page | Access to the information about the school involving teaching programs, events,etc. | 20 | 5 |

As software development life cycle is Agile we need to adapt with changes because client's requirement changes time to time. As planned for the beta release of Romashka we had fixed the bugs that we encountered in our alpha version and made major changes in the web application as well. The header, navigation bar, footer, login and registration page of the website have been changed as the clients request. For beta release we completed the front end design of the user profile dashboard (supported by Moodle), Contact Us Page and Why us page.

ICT ADVANCED PROJECT CLIENT ACCEPTANCE AND SIGN-OFF FORM

| | |
|-----------------------------|-------------------------|
| Project name: | Romashka school website |
| This Document is issued by: | Anastasia Verchak |
| Client: | Victor Ovhinnikov |
| Release | Beta |
| Date: | 26/04/2019 |

The Project Outcome has been measured against its acceptance criteria and has been formally accepted on behalf of the customer. The alpha release may now be closed.

Beta release User Stories:

Start date: 22/03/2019

End date: 26/04/2019

| Title | Description | Client Priority | Time estimate (days) |
|------------------------|--|-----------------|----------------------|
| Bug fixing | See AlphaTestReport.pdf | 10 | 5 |
| Enrolment | As an Admin, I want to enrol students to the subject so that a student could study | 10 | 3 |
| Creating a user | As an Admin, I want to create a user so that a student or a teacher could have an access to the Moodle | 10 | 3 |
| Creating a subject | As an Admin, I want to create a new subject so that a student could study that subject in the future | 10 | 3 |
| Assign role to a user | As an Admin, I want to assign role (student, teacher) to a user so that the website would be protected | 10 | 3 |
| Subject Selection page | Students can enrol by choosing the subjects for the first time and confirm their enrolment | 20 | 5 |
| Edit Selection page | Edit the choices of subjects (withdrawing, changing of subjects) | 20 | 5 |
| Dashboard | Student has an access to his study activities | 10 | 5 |
| Contact us page | Access to the contact details of the school to find its location, phone number for any queries. | 20 | 2 |
| Why us page | Access to the information about the school involving teaching programs, events, etc. | 20 | 5 |

The subject selection page and payment page were postponed to final release of our project Romashka because the client has given less priority to those pages. Also, for our final release of the web application we will be creating the admin panel which gives flexibility to admin to add staff members and subject as per needs of the school as well as assigning subjects to the teachers so that suitable experienced teachers are

assigned to attend and teach the subjects to enhance the teaching and learning process for students.

The Screenshots of the web pages of the beta release are presented further in this report.

Client signed acceptance of the BETA-release



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Final release User Stories:

Start date: 27/04/2019

End date: 19/06/2019

| Title | Description | Client Priority | Time estimate (days) |
|---------------------|---|-----------------|----------------------|
| Bug fixing | See BetaTestReport.pdf | 10 | 5 |
| Blog(Admin) | Allows the admin to post articles about school that visitors can read. | 40 | 3 |
| Events Page | Allows visitors to check upcoming event details, and register if necessary | 40 | 1 |
| Blog(Visitor) | Allows visitors to read the blogs posted by the admin(like or dislike and comment on it) | 50 | 3 |
| Why us page (Admin) | As an Admin, I want to add/delete stuff members and subjects from the web page so that all information would be up-to-date in the database as well. | 30 | 5 |
| Confirmation page | presents the total amount to be paid | 20 | 5 |
| Payment page | process the payment | 20 | 5 |
| Gallery (admin) | As an Admin, I want to add/delete photos from the Gallery page so that all information would be up-to-date in the database as well. | 50 | 1 |
| Gallery | Allows all visitors to view images of school, events conducted,etc | 50 | 1 |

Project manager

Anastasia Verchak

Signature

A handwritten signature in black ink, appearing to read "A -".

Client

Victor Ovchinnikov

Signature

A handwritten signature in black ink, appearing to read "OVS".

Final-release

| Title | Description | Client Priority | Time estimate (days) |
|---------------------|---|-----------------|----------------------|
| Bug fixing | See BetaTestReport.pdf | 10 | 5 |
| Blog(Admin) | Allows the admin to post articles about school that visitors can read. | 40 | 3 |
| Events Page | Allows visitors to check upcoming event details, and register if necessary | 40 | 1 |
| Blog(Visitor) | Allows visitors to read the blogs posted by the admin(like or dislike and comment on it) | 50 | 3 |
| Why we page (Admin) | As an Admin, I want to add/delete stuff members and subjects from the web page so that all information would be up-to-date in the database as well. | 30 | 5 |
| Confirmation page | Presents the total amount to be paid | 20 | 5 |
| Payment page | Process the payment | 20 | 5 |
| Gallery (admin) | As an Admin, I want to add/delete photos from the Gallery page so that all information would be up-to-date in the database as well. | 50 | 1 |
| Gallery | Allows all visitors to view images of school, events conducted,etc | 50 | 1 |

CLIENT TESTING



CP5046 / CP5047 - ICT Advanced Project

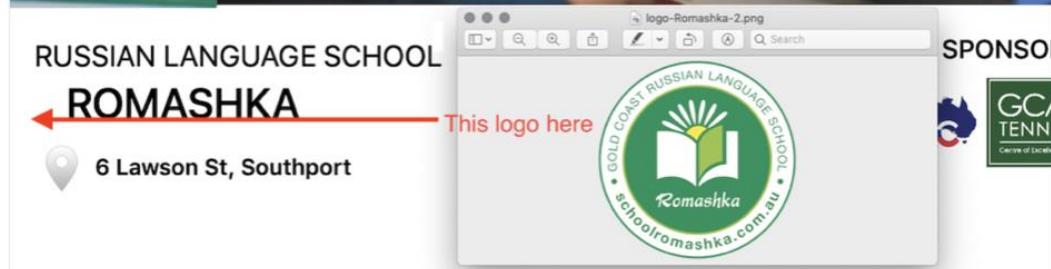
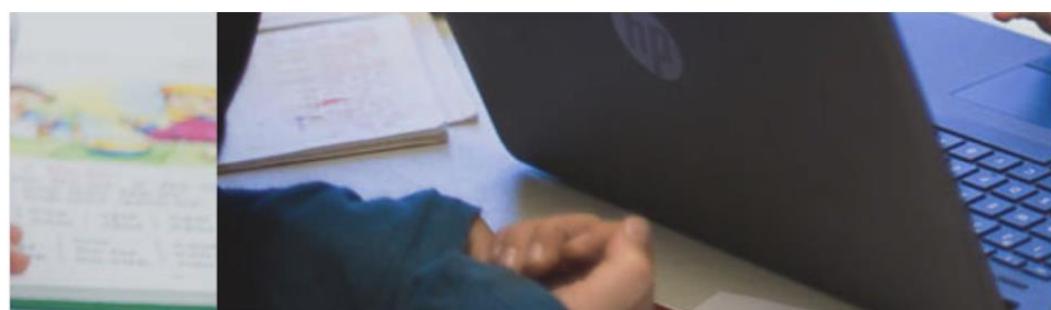
ICT ADVANCED PROJECT CLIENT TESTING ACCEPTANCE FORM

| | |
|-----------------------------|-------------------------|
| Project name: | Romashka school website |
| This Document is issued by: | Anastasia Verchak |
| Client: | Victor Ovhinnikov |
| Release | Beta |
| Date: | 29/04/2019 |

| Test case | Status | Comments |
|-----------|--------|--|
| RLSR_001 | Fail | After entering credentials and click to the button Login, error 404 is appeared |
| RLSR_002 | Pass | |
| RLSR_003 | Fail | User did not appear in the database, validation is missing, see screenshots bellow |
| RLSR_004 | Fail | |
| RLSR_005 | Pass | |
| RLSR_006 | Fail | After entering credentials and click to the button Login, error 404 is appeared |
| RLSR_007 | Fail | Address on the google map should be 6 Lawson St, Southport, not Crackerjack Toys |
| RLSR_0010 | Pass | |
| RLSR_0011 | Pass | |
| RLSR_0012 | Pass | |

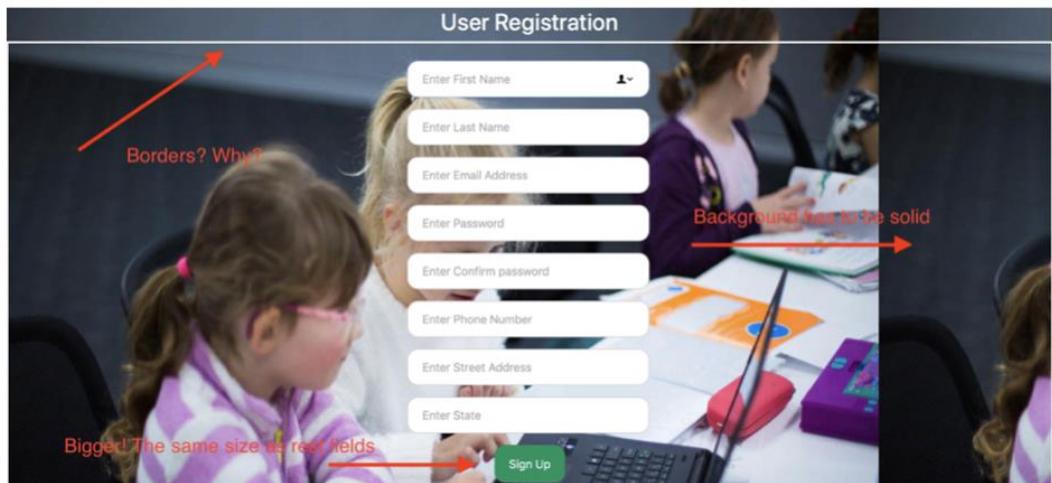
Comments from the customer:

Home page:



Registration page:

User Registration



Enter First Name

Enter Last Name

Enter Email Address

Enter Password

Enter Confirm password

Enter Phone Number

Enter Street Address

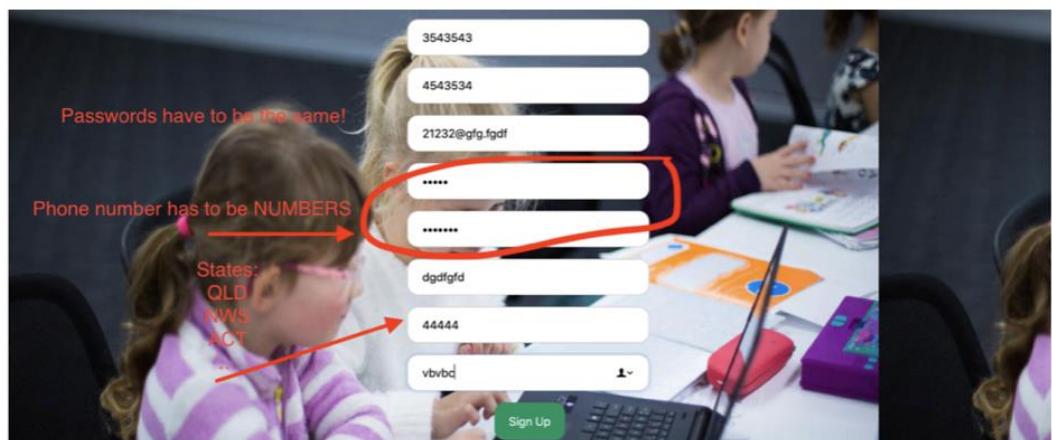
Enter State

Borders? Why?

Background has to be solid

Bigger! The same size as rest fields

Sign Up



3543543

4543534

21232@gfg.fgdf

.....

.....

dgdfgfd

44444

vvbcd

Passwords have to be the same!

Phone number has to be NUMBERS

**States:
QLD
NWS
ACT
...**

Sign Up

Why us

Meet Our Team

Photo size

Jane Doe
Math Teacher
She is 30 year old very experienced teacher.
Jane@example.com
[Contact](#)

Mike Ross
Art Teacher
Experienced with unique teaching style
Mike@example.com
[Contact](#)

John Doe
Science Teacher
30 year old very experienced teacher.
John@example.com
[Contact](#)

Jane Doe
Mike Ross
John Doe

Courses We Offer

Courses

Russian Math

Mathematics includes the study of such topics as quantity, structure, space, and change. Mathematicians seek and use...

[View More](#)

Russian Science

The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide....

[View More](#)

Russian Language

Russian is the largest native language in Europe and the most geographically widespread language in Eurasia. It is the

[View More](#)

Russian Literature

Literature, a body of written works. The name has traditionally been applied to those imaginative works of poetry and prose....

[View More](#)

Get in touch

The contact form includes fields for Name, Message Email (with a link to Privacy Policy), and a message area. It also features a checkbox for subscribing to the Customer Experience Blog and an orange 'Send Message' button.

Map of Brisbane showing the location of Crackerjack Toys.

Project manager

Anastasia Verchak

Signature

Client

Victor Ovchinnikov

Signature

Demonstration of the Beta release

Enrolment

Mathematic

Dashboard / My courses / Math / Participants

Participants

No filters applied

Search keyword or select filter ▼

Enrol users

Number of participants: 3

First name All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Surname All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| Select | First name / Surname | Email address | Roles | Groups | Last access to course | Status |
|--------------------------|----------------------|------------------------------|---------|-----------|-----------------------|---------------------|
| <input type="checkbox"/> | Admin User | anastasia_verchak@icloud.com | Student | No groups | 5 secs | Active |
| <input type="checkbox"/> | Harshitha Paderu | harshup96@gmail.com | Teacher | No groups | 10 days 21 hours | Active |
| <input type="checkbox"/> | Preeti Kaur | preetinarula412@gmail.com | Student | No groups | Never | Active |

Select all Deselect all With selected users... Choose...

Enrol users

Creating a user

Romashka Moodle

Dashboard / Site administration / Users / Accounts / Add a new user

Blocks editing on

General

▶ Expand all

Username

Choose an authentication method

Suspended account

Generate password and notify user

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 non-alphanumeric character(s) such as as *, -, or #

New password

Force password change

First name

Surname

Admin bookmarks

Bookmark this page

Creating a subject

Romashka Moodle

Dashboard / Site administration / Courses / Manage courses and categories / Add a new course

Add a new course

[▶ Expand all](#)

▼ General

Course full name ! ?

Course short name ! ?

Course category ?

Course visibility ?

Course start date ?

Course end date ? Enable

Course ID number ?

▼ Description

Course summary ?

Assign role to a user

Assign role 'Manager' in System?

WARNING! Any roles you assign from this page will apply to the assigned users throughout the entire system, including the front page and all the courses. X

Existing users

None

Potential users

Potential users (3)

Preeti Kaur (preetinarula412@gmail.co
Harshitha Paderu (harshup96@gmail.
Admin User (anastasia_verchak@icloud.com)

◀ Add

Remove ▶

Search

Clear

Search

Clear

[Search options ▶](#)

Assign another role Manager (0) ▾

[Back to the list of all roles](#)

Subject Selection page

Romashka Moodle

Available courses

 Art and craft

 Mathematic

Teacher: Harshitha Paderu

Math for children

 Russian language

Teacher: Preeti Kaur

Russian language for children

Edit Selection page

Mathematic

[Dashboard](#) / [My courses](#) / [Math](#)

 Announcements

Topic 1

Topic 2

Topic 3

Topic 4



-  Edit settings
-  Turn editing on
-  Course completion
-  Unenrol me from Math
-  Filters
-  Gradebook setup
-  Backup
-  Restore
-  Import
-  Share
-  Reset
-  More...

Dashboard

Romashka Admin User

Customise this page

Recently accessed courses

Mathematic

Course overview

In progress

Sort by Course name Card

Mathematic ...

Show 12

Timeline

No upcoming activities due

Private files

No files available

Manage private files...

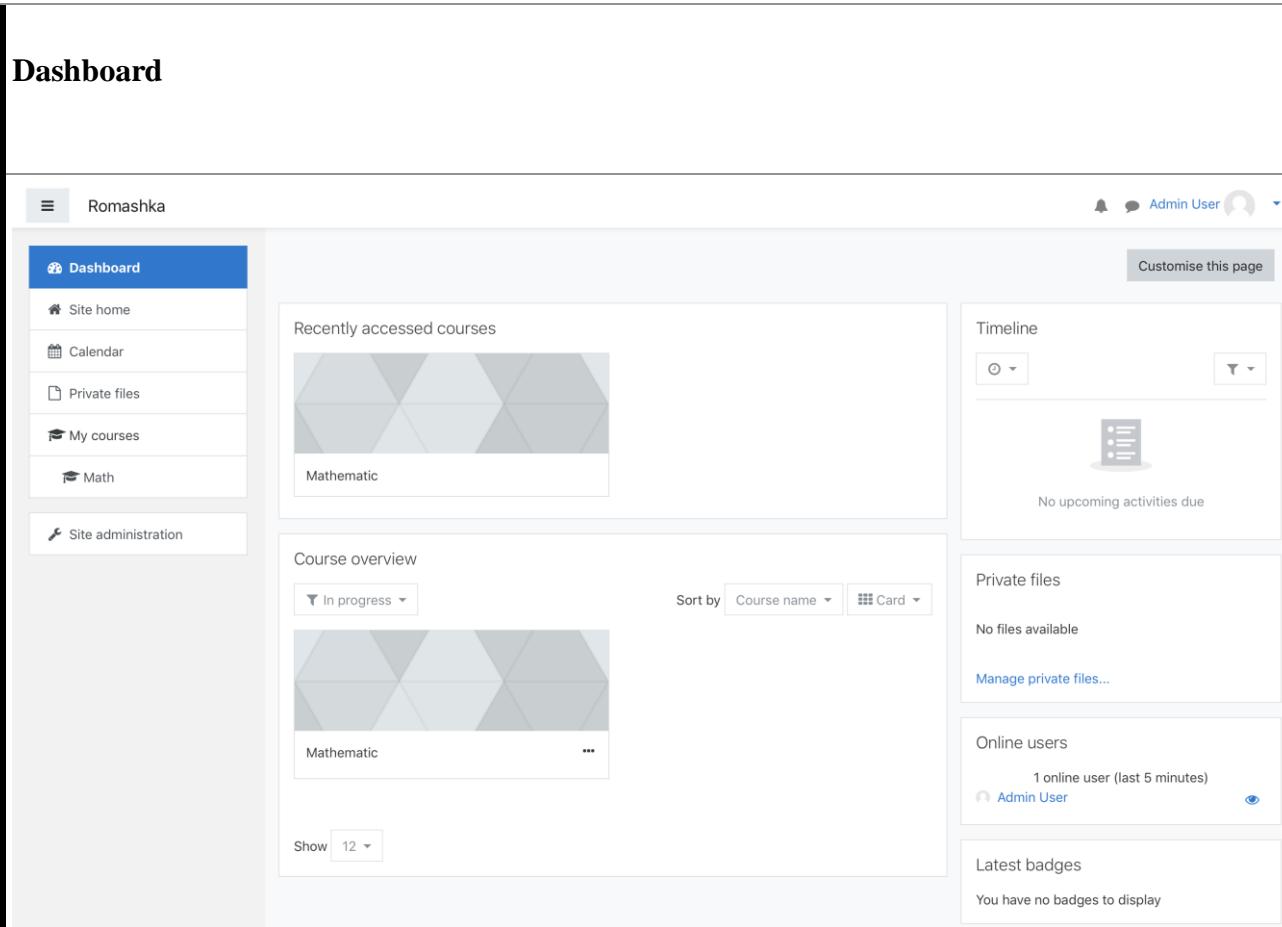
Online users

1 online user (last 5 minutes)

Admin User

Latest badges

You have no badges to display



Contact us page

HOME WHY US? CONTACT US BLOG GALLERY LOGIN SIGN UP

GET IN TOUCH

Full Name

Business Email (Privacy Policy)

Company

Tell us about yourself

Would you like to subscribe to our Customer Experience Blog?

Yes
 No

Send Message

Crackerjack Toys

Brisbane

Map data ©2019 Google, Terms of Use, Report a map error

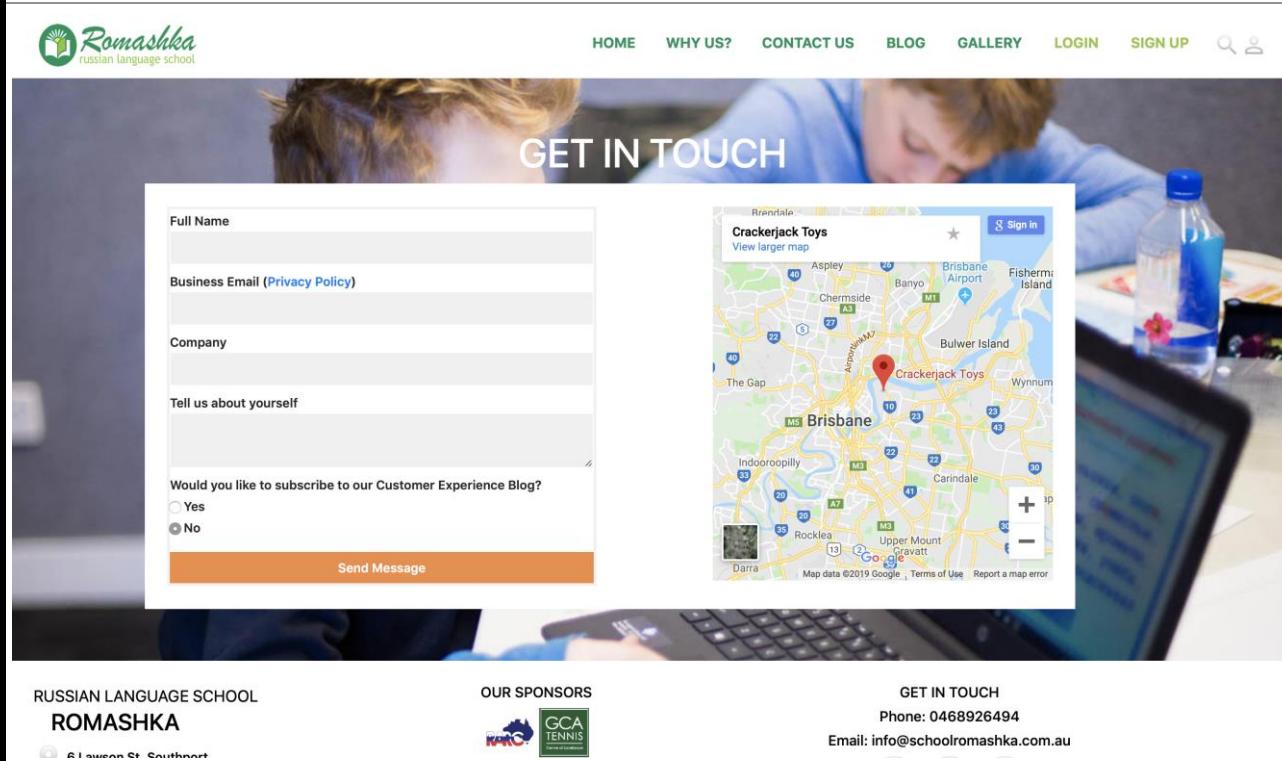
RUSSIAN LANGUAGE SCHOOL
ROMASHKA

OUR SPONSORS

KARDO GCA TENNIS

GET IN TOUCH

Phone: 0468926494
Email: info@schoolromashka.com.au



Why we page

The screenshot shows a mobile view of the 'Meet Our Team' section. At the top, there's a header with the school's logo and navigation links: HOME, WHY US?, CONTACT US, BLOG, GALLERY, LOGIN, SIGN UP, and a search icon. Below the header, the title 'Meet Our Team' is centered. There are three cards, each featuring a teacher's photo, name, title, a brief bio, an email address, and a 'Contact' button.

| Teacher Photo | Name | Title | Bio | Email | Contact |
|---------------|-----------|-----------------|--|------------------|---------|
| | Jane Doe | Math Teacher | She is 30 year old very experienced teacher. | Jane@example.com | Contact |
| | Mike Ross | Art Teacher | Experienced with unique teaching style | Mike@example.com | Contact |
| | John Doe | Science Teacher | 30 year old very experienced teacher. | John@example.com | Contact |

The screenshot shows a mobile view of the 'Courses We Offer' section. At the top, there's a header with the school's logo and navigation links: HOME, WHY US?, CONTACT US, BLOG, GALLERY, LOGIN, SIGN UP, and a search icon. Below the header, the title 'Courses We Offer' is centered. There are four cards, each featuring a course thumbnail, title, a brief description, and a 'View More' button.

| Course Image | Title | Description | Action |
|--------------|--------------------|---|---------------------------|
| | Russian Math | Mathematics includes the study of such topics as quantity, structure, space, and change. Mathematicians seek and use.... | View More |
| | Russian Science | The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide.... | View More |
| | Russian Language | Russian is the largest native language in Europe and the most geographically widespread language in Eurasia. It is the | View More |
| | Russian Literature | Literature, a body of written works. The name has traditionally been applied to those imaginative works of poetry and prose.... | View More |

Final release prototypes

Blog

The screenshot shows a user interface for a blog. At the top left is a logo of a white flower with a yellow center. To its right is the text "Russian Language School on the Gold Coast Romashka". On the far right is a search bar with a magnifying glass icon and the placeholder text "Search". Below the header is a sidebar on the left labeled "ADMIN" which includes links for Profile, Subjects, Messages, Grades, and Homework. The main content area has a title "Add news" and a central "Widget" box containing a placeholder for content. Below the "Widget" are two blue buttons: "Post" on the left and "Cancel" on the right. To the right of the main content is a "NEWS" section with a snippet of text: "Lorem ipsum dolor sit amet, consectetur adipisicing elit." At the bottom of the page are three footer links: "footer", "sponsors", and "contact details".

This screenshot shows the same website layout as above, but the main content area displays two blog articles. The first article, titled "Article 1", features a photograph of a group of people in striped shirts and dark skirts performing a synchronized dance or movement. The second article, titled "Article 2", features a photograph of a group of children and adults sitting in rows, possibly in a classroom or auditorium setting. The rest of the interface, including the sidebar, header, and footer, remains consistent with the first screenshot.

Events Page

The screenshot shows a website layout for an events page. At the top left is a logo of a white flower with a yellow center. To its right is the text "Russian Language School on the Gold Coast Romashka". On the far right is a search bar with a magnifying glass icon and the placeholder text "Q. Search". Below the header is a "main menu" button. The main content area has a light gray background. In the center, there's a section titled "Event page" with two images: "Event 1" showing a group of people in striped shirts and "Event 2" showing a group of children seated in rows. To the right of the images is a "NEWS" section containing placeholder text: "Lorem ipsum dolor sit amet, consectetur adipisicing elit.". At the bottom of the page are three blue navigation buttons: "footer", "sponsors", and "contact details".

Confirmation page

The screenshot shows a confirmation page for enrollment. At the top left is a logo of a white flower with a yellow center. To its right is the text "Russian Language School on the Gold Coast Romashka". On the far right is a search bar with a magnifying glass icon and the placeholder text "Q. Search". Below the header is a "main menu" button. The main content area has a light gray background. On the left is a sidebar with a user profile picture (black silhouette) and a list of menu items: "NAME NAME", "Profile", "Subjects", "Messages", "Grades", and "Homework". In the center, there's a section titled "Enrollment" with a list of three courses: "Course 1", "Course 2", and "Course 3", each preceded by a downward-pointing arrow. At the bottom are two blue buttons: "Confirm" and "Cancel". To the right of the enrollment section is a "NEWS" section containing placeholder text: "Lorem ipsum dolor sit amet, consectetur adipisicing elit.". At the bottom of the page are three blue navigation buttons: "footer", "sponsors", and "contact details".

Payment page

The screenshot shows a web application interface. At the top, there is a logo of a white flower with a yellow center and the text "Russian Language School on the Gold Coast Romashka". Below the header, there is a navigation bar with a search field and a "main menu" button. On the left side, there is a sidebar with a user profile icon and a list of links: Profile, Subjects, Messages, Grades, and Homework. The main content area is titled "Payment details" and contains fields for Card number, Name, and Email, along with "Pay" and "Cancel" buttons. To the right of the main content, there is a "NEWS" section with a placeholder text "Lorem ipsum dolor sit amet, consectetur adipisicing elit.". At the bottom, there is a footer with links for "footer", "sponsors", and "contact details".

Gallery

The screenshot shows a web application interface. At the top, there is a logo of a white flower with a yellow center and the text "Russian Language School on the Gold Coast Romashka". Below the header, there is a navigation bar with a search field and a "main menu" button. The main content area is titled "Event page" and displays two images: "Event 1" showing a group of people in striped shirts and black skirts performing a dance, and "Event 2" showing a group of people seated in rows, possibly at a lecture or performance. To the right of the main content, there is a "NEWS" section with a placeholder text "Lorem ipsum dolor sit amet, consectetur adipisicing elit.". At the bottom, there is a footer with links for "footer", "sponsors", and "contact details".

ICT Infrastructure

Configuration management

Server and Domain

| | |
|----------------------------------|--|
| Subdomain: | romashka.ictatjcub.com/Romashka |
| FTP host: | ftp.ictatjcub.com |
| FTP username: | romashka@ictatjcub.com |
| FTP password: | 123zxca! |
| Remote phpMyAdmin: | romashka.ictatjcub.com/phpmyadmin |
| Database name: | ictatjcu_romashka |
| Database host: | localhost |
| Database user: | ictatjcu_romashk |
| Database password: | 123zxc |
| Moodle: | http://romashka.ictatjcub.com/moodle |
| Moodle database: | ictatjcu_moodle |
| Moodle database password: | 123zxc |
| Moodle database user: | ictatjcu_moodle |
| Moodle admin: | Admin |
| Moodle admin password | 123Zxc456! |

GitHub is an online version control service which stores our work in versioned fashion. We can revert to any version at any point in time. Multiple users can use a repository to store their work.

Link to the repository is as follow:
<https://github.com/harshup96/Romashka>

[US] | https://github.com/harshup96/Romashka/tree/master/Beta

Netflix ee nagaraniki emai... ee nagaraniki emai... Mulk (2018) 1080p... Australian Immigrat... HR21 Installing Moodle ...

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)

[harshup96 / Romashka](#) [Watch](#) 0 [Star](#) 0 [Fork](#) 0

[Code](#) [Issues 0](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Insights](#) [Settings](#)

Branch: master [Romashka / Beta /](#) [Create new file](#) [Upload files](#) [Find file](#) [History](#)

| jc476763 Delete test | Latest commit 2a99709 3 days ago |
|-----------------------|----------------------------------|
| .. | |
| BetaUpdated | Add files via upload 4 days ago |
| Design | Add files via upload 3 days ago |
| Documentations | Beta preparation 24 days ago |
| Romashka_BETA | Add files via upload 3 days ago |
| Romashka_Beta_Updated | Delete test 3 days ago |
| SQL | Add files via upload 11 days ago |
| Source Code | Delete fads 18 days ago |
| .DS_Store | Beta preparation 24 days ago |

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Pulse [Contributions: Commits ▾](#)

Dec 2, 2018 – Apr 29, 2019

Contributions to master, excluding merge commits

Contributors

| harshup96 | anastasiaverchak |
|----------------------------|-------------------------|
| 29 commits 5,058 ++ 254 -- | 24 commits 310 ++ 19 -- |
| | |
| #1 | #2 |

| preetichhabra11 | jc476763 |
|----------------------|--------------------------|
| 19 commits 1 ++ 1 -- | 10 commits 4,954 ++ 3 -- |
| | |
| #3 | #4 |

It is a comprehensive tool developed by Adobe for web designers. We used Dreamweaver for designing our HTML and CSS pages. The integration with Git makes it flawless. It also supports JavaScript, PHP.

PHP is a server-side scripting language that is embedded in HTML. It is integrated with number of popular databases like MySQL, Oracle, PostgreSQL, Informix, etc.

NEW DATABASE SCREENSHOTS (phpmyadmin)

The screenshot shows the phpMyAdmin interface for the 'ictatjcu_moodle' database. The left sidebar lists tables: contactUS, course, enrollement, login, staff, and user. The main panel displays a table of database statistics:

| Table | Action | Rows | Type | Collation | Size | Overhead |
|-----------------|---|----------|---------------|------------------------|----------------|------------|
| contactUS | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 16 Kib | - |
| course | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 32 Kib | - |
| enrollement | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 32 Kib | - |
| login | Browse Structure Search Insert Empty Drop | 4 | InnoDB | utf8_general_ci | 32 Kib | - |
| staff | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 16 Kib | - |
| user | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 16 Kib | - |
| 6 tables | Sum | 4 | InnoDB | utf8_general_ci | 144 Kib | 0 B |

Moodle Database

The screenshot shows the phpMyAdmin interface for the 'ictatjcu_moodle' database. The left sidebar lists many Moodle-specific tables starting with 'mdl_'. The main panel displays a table of database statistics:

| Table | Action | Rows | Type | Collation | Size | Overhead |
|---------------------------------------|---|------|--------|-----------------|--------|----------|
| mdl_analytics_models | Browse Structure Search Insert Empty Drop | 2 | InnoDB | utf8_general_ci | 32 Kib | - |
| mdl_analytics_models_log | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 32 Kib | - |
| mdl_analytics_predictions | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 64 Kib | - |
| mdl_analytics_prediction_actions | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 64 Kib | - |
| mdl_analytics_predict_samples | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_analytics_train_samples | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 64 Kib | - |
| mdl_analytics_used_analysables | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_analytics_used_files | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 64 Kib | - |
| mdl_assign | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignfeedback_comments | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignfeedback_editpdf_annotation | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignfeedback_editpdf_cmt | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignfeedback_editpdf_queue | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 32 Kib | - |
| mdl_assignfeedback_editpdf_quick | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 32 Kib | - |
| mdl_assignfeedback_file | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignment | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 32 Kib | - |
| mdl_assignment_submissions | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 80 Kib | - |
| mdl_assignment_upgrade | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignsubmission_file | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assignsubmission_onlinetext | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 48 Kib | - |
| mdl_assign_grades | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 80 Kib | - |
| mdl_assign_overrides | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 64 Kib | - |
| mdl_assign_plugin_config | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 80 Kib | - |
| mdl_assign_submission | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 96 Kib | - |
| mdl_assign_user_flags | Browse Structure Search Insert Empty Drop | 0 | InnoDB | utf8_general_ci | 64 Kib | - |

HTML and CSS:

HTML stands for Hypertext Markup Language. It supports tags for various elements of a web page.

```
x login.html
Source Code bootstrap.min.css jquery.min.js popper.min.js bootstrap.min.js all.js loginstyles.css
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1">
6   <title>Romashka Russian Language School</title>
7   <link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" rel="stylesheet">
8   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
9   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
10  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
11  <script src="https://use.fontawesome.com/releases/v5.0.8/js/all.js"></script>
12  <link href="loginstyles.css" rel="stylesheet">
13 </head>
14 <body>
15
16 <!-- Navigation -->
17 <nav class="navbar navbar-expand-md navbar-light bg-light sticky-top">
18   <div class="container-fluid">
19     <a class="navbar-brand" href="index.html"></a>
20     <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarResponsive">
21       <span class="navbar-toggler-icon">
22         </span>
23     </button>
24     <div class="collapse navbar-collapse" id="navbarResponsive">
25       <ul class="navbar-nav ml-auto">
26         <li class="nav-item active">
27           <a class="nav-link" href="index.html">HOME</a>
28         </li>
29         <li class="nav-item">
30           <a class="nav-link" href="#">WHY US?</a>
31         </li>
32         <li class="nav-item">
33           <a class="nav-link" href="#">CONTACT US</a>
34         </li>
35         <li class="nav-item">
36           <a class="nav-link" href="#">BLOG</a>
37         </li>
38         <li class="nav-item">
39           <a class="nav-link" href="#">GALLERY</a>
40         </li>
41       </ul>
42     </div>
43   </div>
44 </body>
```



```
x index.html
Source Code bootstrap.min.css jquery.min.js popper.min.js bootstrap.min.js all.js style.css
1 @import url('https://fonts.googleapis.com/css?family=Poppins:400,500,700');
2
3 <html, body{
4   height: 100%;
5   width: 100%;
6   font-family: 'Poppins', sans-serif;
7   color: #222;
8 }
9
10 <.navbar{
11   padding: .8rem;
12 }
13 <.navbar-nav li{
14   padding-right: 20px;
15 }
16 <.nav-link{
17   font-size: 1.1em !important;
18 }
19 <.carousel-inner img{
20   width: 100%;
21   height: 100%;
22 }
23 <.carousel-caption{
24   position: absolute;
25   top: 50%;
26   transform: translateY(-50%);
27 }
28 <.carousel-caption h1{
29   float: bottom;
30   font-size: 200%;
31   text-transform: uppercase;
32   text-shadow: 1px 1px 15px #000;
33 }
34 <.carousel-caption h3{
35   font-size: 400%;
36   font-weight: 500;
37   text-shadow: 1px 1px 10px #000;
38   padding-bottom: 1rem;
39 }
40 <.btn-primary{
41   background-color: #6648b1;
42   border: 1px solid #6648b1;
43 }
```

```
login.html
Source Code  bootstrap.min.css  jquery.min.js  popper.min.js  bootstrap.min.js  all.js  loginstyles.css
1  .navbar{
2    padding: .8rem;
3  }
4  .navbar-nav li{
5    padding-right: 20px;
6  }
7  .nav-link{
8    font-size: 1.1em !important;
9  }
10 #login-box
11 {
12   position: relative;
13   margin: 5% auto;
14   height: 400px;
15   width: 600px;
16   background: #fff;
17   box-shadow: 0 2px 4px rgba(0, 0, 0, 0.6);
18 }
19
20 .left-box
21 {
22   position: absolute;
23   top: 0;
24   left: 0;
25   box-sizing: border-box;
26   padding: 40px;
27   width: 300px;
28   height: 400px;
29 }
30
31 h1
32 {
33   margin: 0 0 20px 0;
34   font-weight: 300;
35   font-size: 28px;
36 }
37
38 input[type="text"],
39 input[type="password"]
40 {
41   display: block;
42   box-sizing: border-box;
43   margin-bottom: 20px;
44 }
```

** If a new team member adds up in later phases, they have to install Dreamweaver, Accesson their laptops. The previously developed versions can be found on GitHub. The new team member should understand our progress and be able to learn the programming needed. He/she should be able to understand the user stories and priorities.

THE DATABASE

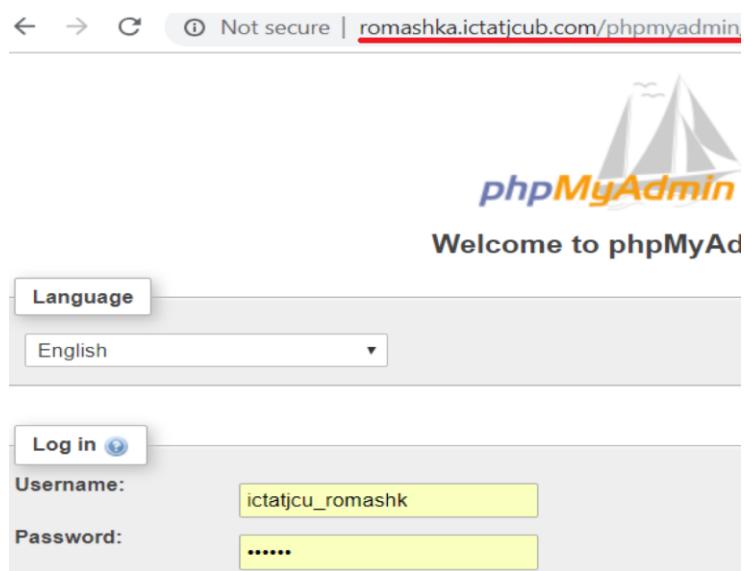
The remote database for this project is located at 'romashka.ictatjcub.com/phpmyadmin'.

phpMyAdmin is an open source toll that provides a Graphical User Interface to work with the MySQL database management system in case of this project. With phpMyAdmin, the admin can create, alter or drop databases and tables, create or remove users and user accounts, manage the privileges granted to a particular user, import and export data in SQL and other formats, etc.

For this project, a Database named 'ictatjcu_romashka' was created. The Username is 'ictatjcu_romashk' and Password is '123zxc'. Knowledge of these credentials are sufficient for existing members of the team and any plausible new members who may join the team.

Steps for set-up of Database:

Step 1: Login



← → C ⓘ Not secure | romashka.ictatjcub.com/phpmyadmin

phpMyAdmin

Welcome to phpMyAd

Language

English

Log in

Username: ictatjcu_romashk

Password:

Step 2: Create Tables and Insert Data (Since Database is already created)

Tables can be created using SQL or by clicking on the '+New' button on the left hand side.

Similarly, data can be inserted using the Insert tab or by writing an SQL, or my Importing or Exporting from other existing databases, or Excel files.

The Table Columns and data can be seen or edited by selecting the respective table on the side bar. Also, the Primary keys, foreign keys, indexes and relationships can be updated under the 'Designer' tab.

Step 3: Creating a connection with the database.

A config.php file contains the php code to enables connection with the database, is included in the <?php> .. ?> section of all the .php files created in the front end of the project.

```

config - Notepad
File Edit Format View Help

<?php
//define constants for connection info
define("MYSQLUSER","ictatjcu_romashk");
define("MYSQLPASS","123zxc");
define("HOSTNAME","localhost");
define("MySQLDB","ictatjcu_romashka");

//make connection to database
function db_connect()
{
    $conn = @new mysqli(HOSTNAME, MYSQLUSER, MYSQLPASS, MySQLDB);
    if($conn -> connect_error) {
        die('Connect Error: ' . $conn -> connect_error);
    }
    return $conn;
}
?>

```



login - Notepad

File Edit Format View Help

```
<?php
```

```
//must appear BEFORE the <html> tag
session_start();
include_once('include/config.php');
```

Once the connection is established, suitable php code is inserted in the dynamic pages of the site to for validation and other functionality.

An Example of the Registration.php code is as follows:

The screenshot shows the 'Table structure' view for the 'mdl_user' table in MySQL Workbench. The table has 13 columns:

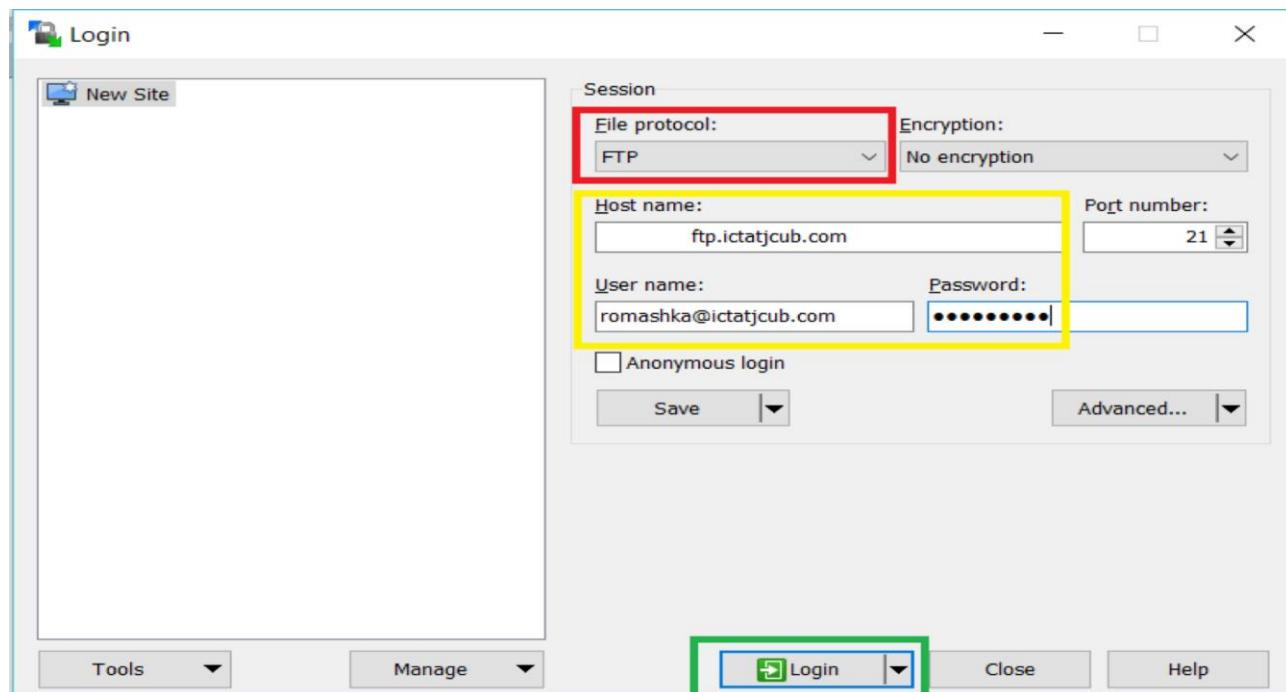
| # | Name | Type | Collation | Attributes | Null | Default | Comments | Extra | Action |
|----|------------|-------------|-----------------|------------|------|---------|------------------|----------------|--------------------|
| 1 | userID | int(10) | | | No | None | | AUTO_INCREMENT | Change Drop More |
| 2 | role | varchar(7) | utf8_general_ci | | No | student | admin sets staff | | Change Drop More |
| 3 | fname | varchar(20) | utf8_general_ci | | No | None | | | Change Drop More |
| 4 | Iname | varchar(20) | utf8_general_ci | | No | None | | | Change Drop More |
| 5 | username | varchar(20) | utf8_general_ci | | No | None | | | Change Drop More |
| 6 | password | varchar(20) | utf8_general_ci | | No | None | | | Change Drop More |
| 7 | confirmPWD | varchar(20) | utf8_general_ci | | No | None | | | Change Drop More |
| 8 | phone | varchar(10) | utf8_general_ci | | No | None | | | Change Drop More |
| 9 | email | varchar(30) | utf8_general_ci | | No | None | | | Change Drop More |
| 10 | street | varchar(30) | utf8_general_ci | | No | None | | | Change Drop More |
| 11 | state | varchar(3) | utf8_general_ci | | No | None | | | Change Drop More |
| 12 | zip | varchar(4) | utf8_general_ci | | No | None | | | Change Drop More |
| 13 | date | date | | | No | None | system date | | Change Drop More |

THE RELEASE ENVIRONMENT

The Release Environment chosen for this project is 'WinSCP'. It is an open source FTP client, SFTP client, SCP client, etc. for Windows OS. Its main functionality is File Transfer between a local and a remote computer.

It provides a GUI and is integrated with Windows to provide basic operations with files and drag & drop facilities. For this project, its support with FTP protocols is utilised. It is faster compared to other hosting environments.

How to set-up the environment:



Step 1:

On launching WinSCP after installation, it prompts us to login.

We use the hostname, host username and host password as the credentials to login, but before that, the File Protocol must be set to FTP.

FTP host:

ftp.ictatjcub.com

FTP username:

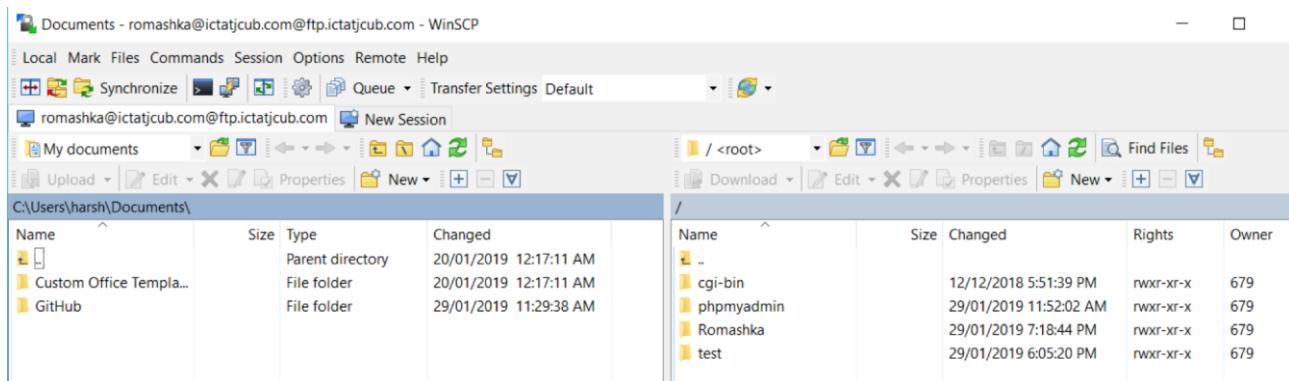
romashka@ictatjcub.com

FTP password:

123zxcA!

For this project, the host credentials are as under:

When this dialogue box pops-up, it means the connection is getting established, and if

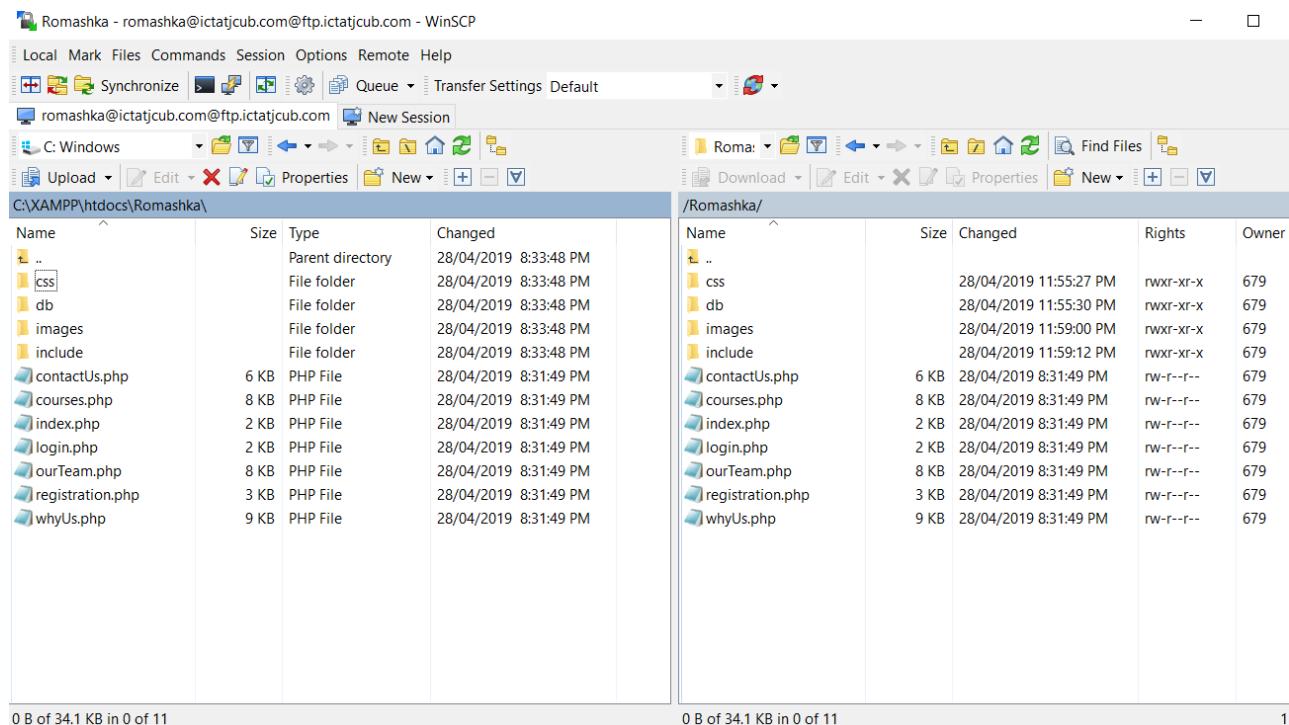


successful the session is started.

On the left-hand side are the files of the local computer and on the right-hand side are the files on the remote computer.

Step 2: Perform File Transfer

The files of the website are all placed in a folder name 'Romashka'. We can simply drag these files from the left hand side of the screen (local PC) and drop them into the right-hand side, the remote computer.



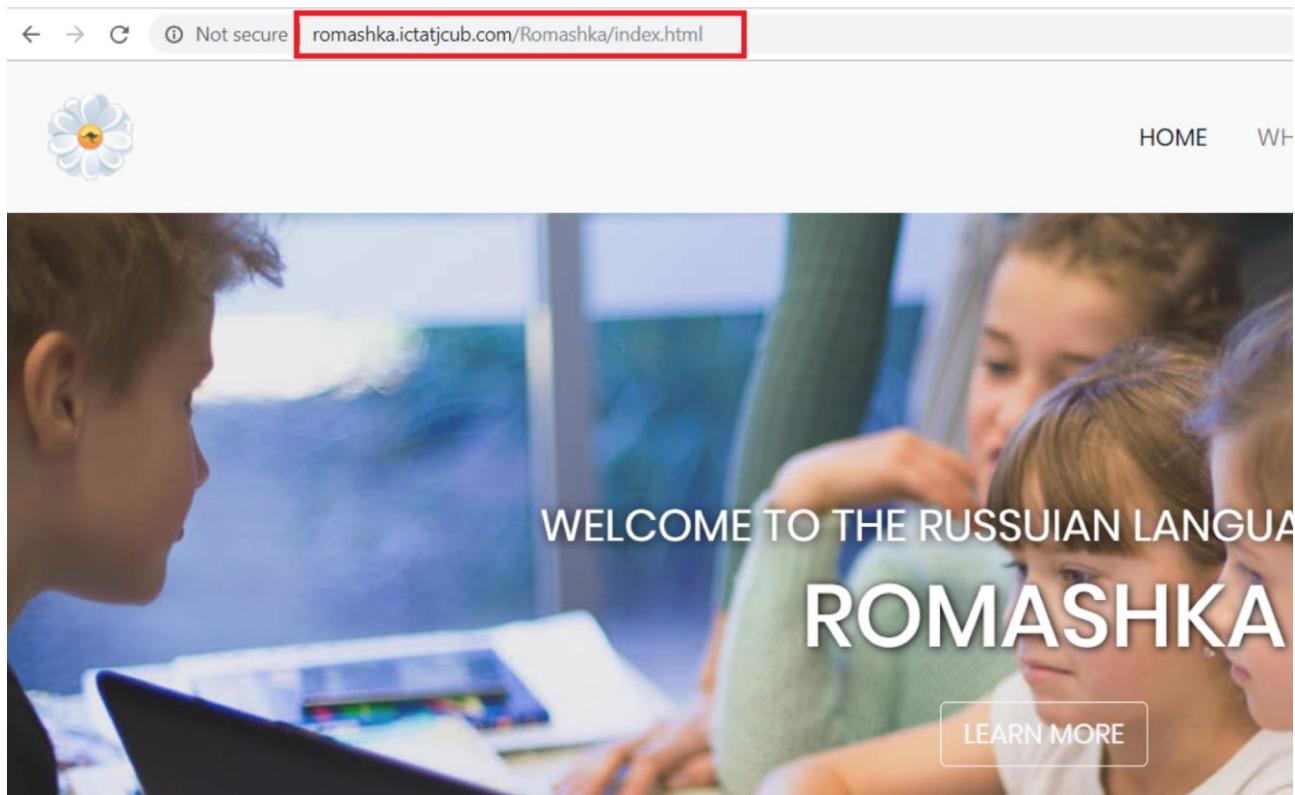
Step 3: Ready for the Client to test

The files or the website is now on the remote server and can be tested by the client.

The URL for the client to go to the website is:

<http://romashka.ictatjcub.com/Romashka/index.html> or simply

<http://romashka.ictatjcub.com/Romashka>, because the hosting environment is configured to look for index files from the folder and run them automatically.



Any changes to the files can be made locally and re-uploaded to the remote hosting environment with no hustle.

Sometimes, due to inactivity or shutting down of the local PC, WinSCP logs out automatically for security purposes and in such cases, a login is necessary and the work can be picked up from where it was last left.

PROJECT MANAGEMENT TOOLS

Project management - it is the process of achieving a particular goal within a given framework (time, budget, etc.). At the same time, the concept of PM also includes a set of tools, techniques, skills and techniques that are used to achieve the goal and can vary depending on the changing conditions in which the work is carried out (the appearance of both risks and opportunities).

Trello

Trello is a web-based collaboration service that can help organise and manage projects using cards.

The main advantage of Trello can be called viewing several simultaneously running projects and their status at the moment. To work with a group of developers or other artists working on projects with deadlines or goals, this system can give an idea of the progress of projects.

In Trello, the emphasis is on packs of cards. Each pack shows the status of any project. For example, if select a team to work, then in the first column there will be cards with a things which has to be done, in the second - tasks in progress, in the third there may be ready tasks, in the fourth - meetings and other general things.

Cards have many features. They are intended for discussions, polls, download files and data. It is possible to set deadlines, assign text and color labels. To assign an executer to any task, it is necessary to select it in the card from the list of work team or simply drag the executer's avatar to the task on the right.

The screenshot shows a Trello board titled "Romashka". The board has three columns: "Open", "In progress", and "Done".

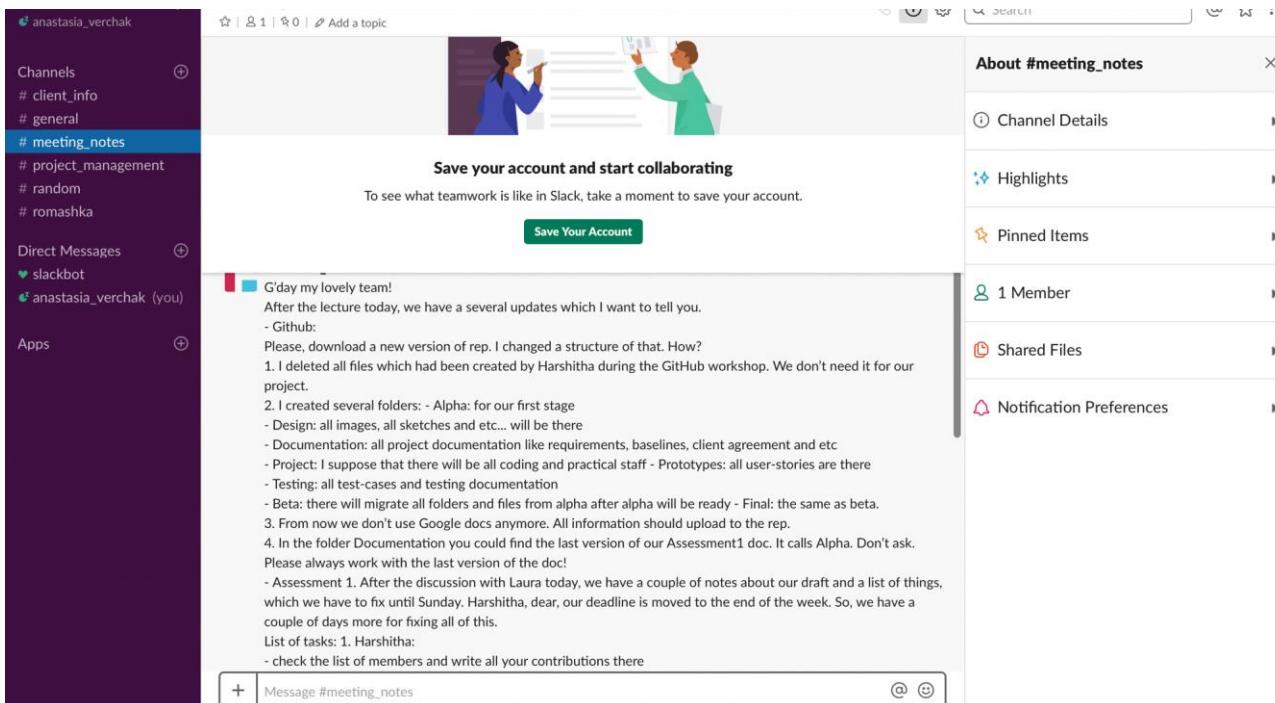
- Open Column:**
 - Plan buget (due 21 Jan, assigned to AV)
 - Closeout (due 22 Mar, assigned to AV)
 - Training (due 20 Mar, assigned to AV)
 - Project RAID log (due 31 Jan, assigned to AV)
 - Gallery prototype (due 31 Jan, assigned to AV)
 - Events prototype (due 31 Jan, assigned to AV)
 - Blog prototype (due 31 Jan, assigned to AV)
 - Contact us prototype (due 31 Jan, assigned to AV)
 - Parent table creation (due 31 Jan, assigned to H)
- In progress Column:**
 - Registration front end (due 26 Jan, assigned to PN)
 - Project management plan (due 31 Jan, assigned to AV)
 - Project initiation document (due 31 Jan, assigned to AV)
 - Develop Project chapter (due 31 Jan, assigned to AV)
 - Register an account at Moodle (due 31 Jan, assigned to H)
 - Plan resources (due 21 Jan, assigned to AV)
- Done Column:**
 - Home page
 - Login
 - Gathering requirements (assigned to AV)
 - WBS
 - ER diagram
 - Plan schedule (due 20 Jan, assigned to AV)

At the bottom of each column, there is a "+ Add another card" button.

It is important to note that all team members see changes in real time and can monitor the status of individual executers — online or offline. Trello is available both in the web interface and as an application for the iPhone. On the iPad, the service works similarly to a desktop implementation.

Slack

Slack is an online service for correspondence within the team and a large company, but in fact it is a replacement for Skype for such conversations. This service has the ability to closely integrate active dialogs with other applications. This principle allows you to monitor the progress of work



on various projects using one interface and remove unnecessary information.

GanttPro

GanttPro - Gantt chart that allows project manager to plan and manage projects online, visualise processes, create tasks and assign them to participants, set deadlines and percentage of individual tasks and the project as a whole, add milestones and share the created Gantt schedule with the team and with clients with the right to view or edit.

BURNDOWN CHART AND VELOCITY CHARTS

THE BURNDOWN CHART:

The Burndown chart was used to track the progress of the project that is now in full swing.

This chart represents the progress for the Beta Release of this project and the analysis will also help in managing the progress of the Final Release.

In this chart, on the X-Axis are the Number of Days that were allocated to all the User Stories that were planned in Beta, which was 42. And on the Y-Axis are typically the User Stories (or the work that had to be done) to get to the completion of Beta Release.

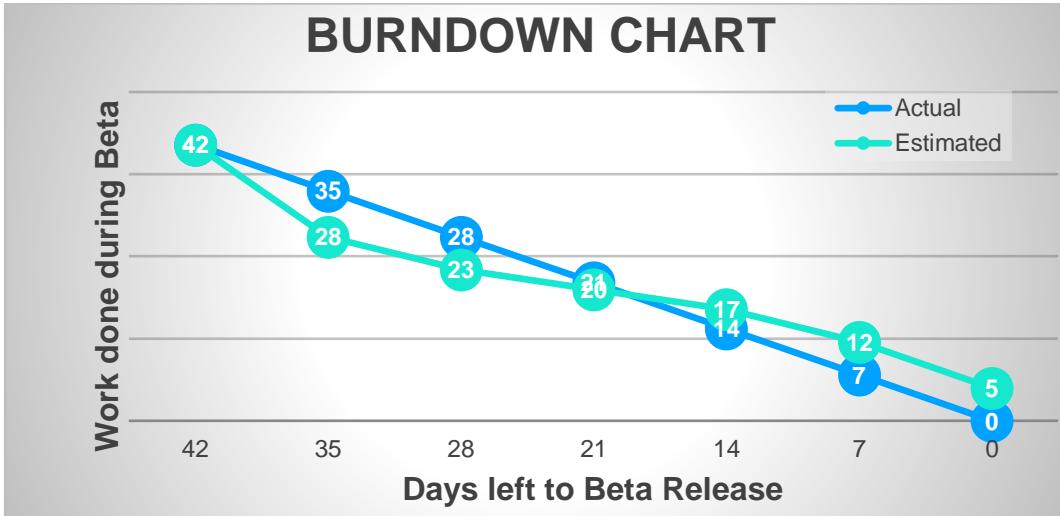
The User Stories that were to be completed (includes fixing the bugs from Alpha) and the days allocated in Beta are shown in the table below:

| Beta User Stories | Days Allocated | Status |
|---|----------------|-----------|
| Bug Fixing (Includes Registration, Login, Header, Footer) | 15 | Completed |
| Moodle | 15 | Completed |
| Contact Us | 2 | Completed |
| About Us/Why us | 5 | Completed |
| Database Modification | 5 | Completed |

All the alterations that were made to Beta were successfully met, but new user stories were added to the Final release (admin pages) along with collaboration of the backend with the database created for Moodle.

As a result of migrating to moodle, and adding the admin pages to the project, accompanied to changes requested by the client, the completion to Beta release took longer than expected.

This lag is represented by the blue line (Actual) in the Burndown Chart.



For the Final Release, it is planned to keep the blue line (Actual) under the orange line (Estimated) and get back on track with the project!

VELOCITY CHART:

The Velocity Chart was a means by which the teams' velocity or pace during the Beta Release was measured in order to track progress.

Beta Release took six weeks for completion and is represented on the X-Axis. The achievement of work is shown on the Y-Axis. The pace of the team is found to be constant during the first four weeks, as it was planned that the team members would work an average of 2.5 days in a week and about 5 hours a day. But during the last two weeks the pace increases in order to meet the client testing deadline.

In Beta, there were 3 User Stories, Migration to Moodle and Bug Fixing from Alpha, to be Completed over a total time span of 42 days. But, only tasks that were to be completed within 37 days could be delivered promptly.

The Formula for calculating the velocity of the team is:

$$\text{Velocity} = \frac{\text{Actual Days of Work}}{\text{Estimated Days of Work}} \times 100$$

Therefore the velocity of this team is $(37/42) \times 100 = 88.095\%$

The Velocity rate achieved is visually very ambitious, but the fact of the matter is that, the major part of the project development has been pushed to the Final release and it could be a challenge to achieve a similar velocity rate.

