

ExampleProject

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Introduction:

ExampleProject is an online platform designed to connect students who seek online lessons on different subjects with teachers or subject matter experts offer lessons online via our platform. **ExampleProject** provides availability to search, book and conduct video conferencing (using 3rd party tool like Skype) based lessons online.

ExampleProject provides an opportunity for teachers to list their profiles and create separate service offerings available for booking. Teachers will be able to create an unlimited amount of lessons with customized length and price. For each lesson, teachers can add package offers with additional value for a student (discount). Teachers will also have the ability to add multiple packages for a single lesson. **ExampleProject** will also include an adjustable agent's commission model that must be applied by site exampleprojectv1.com

Administrators on earnings of Teachers who offer lessons via the platform.

Overall, the end product will include various features that help students enrol and take online lessons, teachers to post and facilitate lessons, administrators to effectively manage the site.

ExampleProject is also expected to be integrated with various systems including mail servers, social media, video conferencing software, payment systems and etc.

1. Purpose

The objective of this document is to define functional and non-functional requirements for the development of **ExampleProject** web application.

2. Functional Requirements

User Types

All users of the website must be classified according to the four following groups:



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Visitors — must be defined as non-registered users with the following privileges and abilities:	Access to the public main page
	Access to the search page (Discover)
	Browse and open Teachers' proles
	Browse and open Lessons
	Access to How It Works page
	Access to Become a Teacher Page
	Access to Login Page
	Access to the Registration page
	Log in using login and password
	Log in using credentials from integrated Social Media sources
	Initiate Forgot Password function
Students – must be denied as registered users who have selected the 'Student' option during user registration and thus possess the following privileges and abilities upon logging in:	Add and edit personal information via a user profile
	Adjust profile privacy settings
	Access to Student Dashboard
	Deposit funds into My Wallet using available payment methods
	Withdraw funds from My Wallet using available payment methods
	Initiate requests for instructor-led lessons and instant teaching
	Take an instructor-led lesson via video conferencing



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	Access the whiteboard during the instructor-led lesson
	Cancel or reschedule lessons according to the cancellation/rescheduling policy of the specific lesson they have booked.
	Create lists of their friends and teachers
	Access to the list of completed and schedules lessons
	Send messages to teachers and students
	View Notebook and News Feed content
	Like, Share and Comment posts in Newsfeed
	Post messages and upload photos/attach files on their notebook
	Leave comments/likes to the News Feed posts (messages and photos)
	Rate and comment on conducted lessons
	Report lesson issues
	Report non-attendance
	View and download files uploaded by teachers to their profiles or attached to the particular lesson
	Receive email notifications
	Receive notifications via the site
	Manage newsfeed content
	Block or unblock a user
	Purchase gift cards
	Refer friends and receive referral bonuses



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Teachers — must be denied as registered users who have selected the ‘Teacher’ option during user registration and thus possess the following privileges and abilities upon logging in:	All-access and abilities of Student users
	Create lessons and specify various parameters associated with lesson entity during lesson creation
	Add personal information, qualifications and upload certificates for approval via their profile settings
	Ability to upload videos to their profile using links from external services via their profile settings
	Ability to Attach files (study materials) to lessons
	Ability to confirm, reschedule or decline new lesson requests
	Ability to reschedule/cancel scheduled lessons
	Ability to conduct trial lessons and instant teaching
	Ability to Add posts to the newsfeed within a list of categories (manual selection)
	Ability to view current balance and initiate payout (whole sum or a certain amount)
Administrators must be defined as ExampleProject’s staff who access administrative functions of the site that are not available to other user groups. Administrators must possess the	Access Administration Panel (AP) superuser interface



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following privileges and abilities upon logging in:	
	Access to all pages available to Visitors, Users, Teachers
	Add translations to user-generated content
	Edit user profile information
	Block registered
	Delete registered users
	Message registered users
	Moderate all user-generated content
	Moderate Newsfeed content
	Moderate Notebook content
	Generate administrator reports
	Manage transactions
	Set Commission rates
	Set Referral bonus rates
	Set notification texts
	Contact registered users via mass email
	Create and update the list of lesson subject categories

Example Project Homepage

Example Project should have a default landing page/home page
The visitors will be able
— navigate the website to access the public content



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- register to the website
- login to the website to accesses the member content

Home Page must allow users to perform the following functions:

- Search (Public Content only)
- Links to
 - Become a teacher
 - How it works
 - Signup
 - Login
- Static content pages like discover, Help, About, Click, Contacts
- Affiliated social media pages

Search — Example Project’s Public and Member pages must feature a search box which has the following abilities:	Allows the user to type in search queries
	Have the system check pages for matches to the specified query
	Whenever a search is executed, the system must refresh the Content Panel of a page from which the search was executed to display results
	Results must be sorted in order of relevance described in the section
	Navigate user to the page where the content resides by clicking on the result.
Become a Teacher Page — Example Project must contain a public page which lists content describing the benefits of becoming an online teacher. Become a teacher page must feature the following:	Contain static information outlining advantages ExampleProject provides for teachers and main terms of engagement with us
	Contain a link to sign up form



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<p>How it Works Page — must include a public page which lists content describing the benefits of becoming a student and taking online lessons offered by Online Teachers. The ‘Become a Teacher’” page must feature the following:</p>	<p>Link to sign up form.</p>
<p>Sign up — visitors of ExampleProject must have the ability to register as a member thus gaining access to member content of the site. The registration process must include the following:</p>	<p>The registration process must be initiated whenever a visitor clicks on the ‘ Sign Up’ located on any Public page.</p>
	<p>Clicking the ‘Sign Up’ button must invoke a pop-up Sign Up form.</p>
	<p>Sign Up form consists of two registration options that must be toggled by using tabs</p>
	<p>Student Sign-Up option must be selectable for registration of a Student user profile</p>
	<p>Teacher Sign-Up option must be selectable for registration of a Teacher user profile</p>
	<p>Both options must have identical layouts but must lead to creating different entities in the system – student or teacher respectively.</p>
<p>Manual Signup — registration based on user providing a series of specific user information:</p>	<p>Email address to be associated with the user’s prole and serve as login name</p>
	<p>The password which will be used to log into the site</p>
	<p>Confirmation of password</p>
	<p>Confirmation of user’s acceptance of Terms & Conditions (note that different versions of T&C must be displayed depending on selected registration option)</p>



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	Once the user has finished providing required Manual Signup input, they must click 'Sign Up' to trigger registration validation and completion of the registration.
Social Signup — registration via an integrated social media source via the following options:	Sign up by providing Facebook credentials
	Sign up by providing Google credentials
	Manual Sign up must be subject to validation that is triggered whenever the user clicks 'Sign Up' button
	The system must validate that the user has entered all fields that require input
	Failed validation must display an error message informing the user
	All Manual Sign Up fields are mandatory during Manual Signup
	All Social Signup fields are mandatory during Social Signup
	The system must contain an 'Already an Example Project member? Login' link
	'Already an Example Project member? Login' link must allow visitors to move to Log In page
	User registrations must result in an email notification being generated as described in section
Log in — visitors of ExampleProject must have the ability to log in as member thus gaining access to member content of the site. Login functionality must include the following:	Login process must be initiated whenever a visitor clicks on the 'Log In' button



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	Clicking 'Log In' button must invoke a pop-up Sign Up form
	The system must provide teachers and students with the same login form to authenticate.

The system must allow two methods of the login:

Manual Signup – Login based on user providing the following input:	Email address with which the user registered
	The password that user-specified at time of registration
Social Login — Login based on an integrated Social Media sign up	Login by providing Facebook credentials
	Login by providing Google credentials
	Username and password must be validated once the user clicks on the "Login" button
	Validation must depend on the login method chosen
	Manual login must authenticate against ExampleProject database
	Social Media logins must be authenticated via API as well as Example Project database (Subject to vendor's proposed integration method).
	User must be redirected to their respective dashboard pages when entered credentials are validated successfully
	Logged in users must be able to access all the modules visible in their respective sections then an application must display an "Invalid username or password" message



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	when the entered credentials are found invalid
	The application must prompt a message "Please enter username and password" when the user doesn't enter any of the required credentials (username or password)
	The system must include a 'not an Example Project member?' link which will lead users to Sign Up form.
Remember Password	The system must allow users to save passwords in their browser cache
	Users must be able to select saving a password by placing a checkmark in 'Remember Password' check the box featured on the Log In page
Forgot Password	The system must allow users to recover forgotten passwords by using the 'Forgot Password'
	Clicking the link must invoke the 'Forgot Password' page
	The system must provide a standard process mechanism where a user specifies an email associated with their account
	When the user clicks on the "Reset My Password" button, the system must validate the specified email address
	The system must generate an automated password reset email sent to the entered email address Upon successful validation.



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	The system must not actually generate an email to be sent to the user when a matching email address is not found
	The system must generate a login link containing a login token
	The email with login token must be sent to the user via email.
	Provided login link must lead to a Reset Password page
	Reset Password page must allow the user to specify a new password
	Reset Password page must allow the user to re-type confirmation
Reset Password Page	Reset password page must consist of two user input fields
	Field allowing the user to type in the new password
	The field where the password must be retyped for confirmation
	Reset password page must include a button which triggers validation
	Reset password page must include a button which completes resetting of the password
	The system must validate that password strength rules have been followed
	The system must validate that password values in both fields are identical
	Upon completing the password reset, the user must be redirected to login page
	Reset password must be activated immediately after creation



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Password Strength Rules	The system must enforce password strength rules applicable to Example Project logins
	Passwords must be a minimum of 8 characters' long
	Passwords must contain at least one upper case letter
	Passwords must contain at least one lower case letter
	Passwords must contain at least one number
	If password strength requirements are not met during registration system must display an error a message containing password strength rules
	If password strength requirements are not met during registration system must display an error instructing the user to ensure their password is in compliance with these rules.
	If password strength requirements are not met during a password reset system must display an error a message containing password strength rules
	If password strength requirements are not met during the password reset system must display an error instructing the user to ensure their password is in compliance with these rules.
Discover page	Discover page must leverage the Search functionality outlined in section
	This page must allow expanded result filtering options in relation to Categories
	This page must allow expanded result filtering



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	options in relation to Languages
	This page must allow expanded result filtering options in relation to Time of study
	This page must allow expanded result filtering options in relation to Additional options (Professional Teacher/Available for instant Teaching)
	Results from all searches initiated via ExampleProject must be displayed on this page
	Algorithm for determining best matches must include Number of Lessons taught (completed)
	Algorithm for determining best matches must include Number of Lessons offered
	Algorithm for determining best matches must include Review ranking
	Results having higher numbers in the above categories must be considered top results
	Results must be sortable by price
	Results must be sortable by rating
	Teacher profile cards displayed as search matches must contain Profile picture
	Whenever the user attach on the profile picture where an introduction video has been uploaded, the video must be marked by a common 'play' symbol
	Clicking on the video must open the video in a pop-up window
	Teacher profile cards displayed as search matches must Teachers name



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	Teacher profile cards displayed as search matches must Subjects
	Teacher profile cards displayed as search matches must Short description
	Teacher profile cards displayed as search matches must Lowest hourly rate available (calculated from listed offers)
	Teacher profile cards displayed as search matches must Trial lesson option if available
	Teacher profile cards displayed as search matches must Current average rating
	Teacher profile cards displayed as search matches must Number of conducted lessons on ExampleProject
	Teacher profile cards displayed as search matches must Number of reviews left to this teacher
	Teacher profile cards displayed as search matches can contain Link to Video Introduction
	Clicking on a Teacher prole card must result in navigation to Teacher's prole page.
User Profiles	The system must feature User Profile pages associated with Teacher and Student users
	Teacher Profile Page
	All users ExampleProject user types must have the ability to view teachers' proles
	Teachers profile page must have two different viewing modes
	Viewing mode for teachers who currently are on user's Friends List.
	Viewing mode for teachers who currently



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	aren't on user's Friends List. Note that implicitly, this is the only viewing mode available to Visitor user type
	Teachers profile (from Friend List) page must contain Profile information: residence locations, subjects, amount of completed lessons, background, description (short version containing an option to be expanded further)
	Teachers profile (from Friend List) page must contain Contact details
	Teachers profile (from Friend List) page must contain Offered lessons details containing subject, title, price, available packages with discount
	Teachers profile (from Friend List) page must contain Newsfeed/notebook
	Teachers profile (from Friend List) page must contain List of student, teachers and friends
	Teachers profile (from Friend List) page must also contain links to Messages
	Teachers profile (from Friend List) page must also contain links to Schedule lessons
	Teachers profile (from Friend List) page must also contain links to Schedule trial lesson
	Teachers profile (from Friend List) page must also contain links to Expanded rating and reviews page
	Teachers profile (Default View) page contain Profile information: residence locations, subjects, amount of completed lessons, background, description (short version



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	containing an option to be expanded further)
	Teachers profile (Default View) page contain Contact details
	Teachers profile (Default View) page contain Newsfeed/notebook
	Teachers profile (Default View) page contain List of student, teachers and friends
	Teachers profile (Default View) page contain Video Introduction
	Teachers profile (Default View) page must contain links to Add as a Friend
	Teachers profile (Default View) page must contain links to Contact teacher
	Teachers profile (Default View) page must contain links to Schedule lesson
	Teachers profile (Default View) page must contain links to Schedule trial lesson
	Teachers profile (Default View) page must contain links to Expanded rating and reviews page

