

# TutorPoint - Product Descriptions

## KEY:

<b>USER ACCOUNTS</b>	<b>XML PRESENTATION</b>	<b>INTERACTIVE WHITEBOARD</b>	<b>GUI / LAYOUT DESIGN</b>	<b>VIDEO STREAMING</b>
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The term "User" is defined as any accessible profile, whereas "Student" or "Tutor" refers to a specific type of user profile.

"Client" refers to the 'client-side' or the user's application, whereas "Server" refers to the 'server-side' application the Client connects too.

The "Company" refers to CUBIXEL, whereas the "Customer" may refer to Stuart Porter or the on-site customer.

## HIGH PRIORITIES

#	STORY	REQUIREMENTS	TESTS	NOTES	IDEAL DAYS / VELOCITY
001	<b>"As a user, I want to securely register a new account which is stored on a server so that I can access my accounts from any computer."</b>	Can create a new account.	"Make a connection between client and server."	<b>Related Feature ID:</b> TP001	<b>Ideal Days:</b> Range: 1 to 5 Average: 3 Discussed: 2
		Account information is stored on the server.	"Send information to the server, with a hashed password."		
			"Check if username already exists."		
		User details received by client.	"Server creates account."		
			"Return user data or error back to client."		

002	<b><i>“As a user, I want to securely sign into an existing account stored on a server so that I can continue a session from where I left off.”</i></b>	User enters details into login screen.	<i>“Hash entered password and send to server alongside username.”</i>	<b>Related Feature ID:</b> TP001	<b>Ideal Days:</b> Range: 0 to 2 Average: 1 Discussed: 1
		Password is hashed before sending to Server.	<i>“Verify server responds positively with correct log-in results.”</i>		
		Details are checked against know user and logged in on client side.	<i>“Verify server displays an error message if not correct.”</i>		
			<i>“Client requests user details.”</i>		
003	<b><i>“As a user, I would like a main screen that provides a convenient link between me and viewable content.”</i></b>	There is a main screen.	<i>“Canvas with layout displayed on client side.”</i>	<b>Related Feature ID:</b> TP004	<b>Ideal Days:</b> Range: 0 to 2 Average: 1 Discussed: 0.5
		There is a place where courses will be viewable on the main screen.	<i>“Client generates a screen location/placeholder where content is accessible from.”</i>		
004	<b><i>"As a user, I want the login screen to be clean and easy to navigate whilst presenting essential information about current courses."</i></b>	Login screen has a login button and takes a username and password.		<b>Related Feature ID:</b> TP003	<b>Ideal Days:</b> Range: 0 to 2 Average: 1 Discussed: 0.5
		Login screen has a button to change to a registration screen.			

		<i>Has the ability to show some essential information on TutorPoint and current courses.</i>			
005	<b><i>“User is taken from login screen to the main screen of client app after successfully logging in to access the main home screen.”</i></b>	<i>The login screen closes and the main window opens after the user logs in.</i>	<i>“Confirm client side is taken to main screen after logging in.”</i>	<b>Related Feature ID:</b> TP003	<b>Ideal Days:</b> Range: 0 to 1 Average: 0.5 Discussed: 0.5
006	<b><i>“As a user I want to be able to access my account information so that I can see what information is stored.”</i></b>	<i>Account information opens up in a new window.</i>	<i>“Client displays new screen for accessing account information.”</i>	<b>Related Feature ID:</b> TP005	<b>Ideal Days:</b> Range: 1 to 2 Average: 2 Discussed: 2
		<i>A list of information is displayed to the user.</i>	<i>“Client requests information from the server.”</i>		
		<i>The password is not shown.</i>	<i>“Populates window with account information.”</i>		
007	<b><i>“As a user I want to be able to edit my account information, so that I can keep it up to date.”</i></b>	<i>User information is displayed to the user.</i>	<i>“Can create a new entry for selected user information on the client side.”</i>	<b>Related Feature ID:</b> TP005	<b>Ideal Days:</b> Range: 1 Average: 1 Discussed: 1
		<i>Password is not displayed.</i>	<i>“Client requests password confirmation for changes.”</i>		

		Updates are stored on the server.	"Hash password and verify with server."		
			"If field being changed is a password also hash the new password."		
			"Send new information to server."		
			"Client updates user fields from server."		
008	<b>"User can open an XML file that is local to the client so that it can receive display data."</b>	File stored locally to the user.	"Check file exists."	Does this involve just opening and parsing the data or actually reading and processing the XML file?  <b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> Range: 0 to 5 Average: 2 Discussed: 1
		File opens with some error handling.	"Check file type."		
			"Open the file."		
009	<b>"Client can parse an open XML file so that the display data can be extracted."</b>	Handles unknown XML elements.	"Convert file to DOM format"	Loads blank XML file. Link between this user story and story below. Difference in understanding.  <b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> Range: 1 to 1 Average: 1 Discussed: 1
010	<b>"Client can extract the data structure of the</b>	XML files should only need to be read once.	"Iterate through all nodes in the XML tree (depth first)"	<b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> Range: 2 to 3

	<i>XML file so that it can later be displayed"</i>		<i>"Extract all data from each node and populate fields in an object (one object for each node)"</i> <i>"Hierarchy of nodes is preserved, so that each object contains all nodes under it in the XML tree"</i>		Average: 2.5 Discussed: 2
011	<i>"Client can display text as described in an XML file, so that users can read it."</i>	<i>Text placed on the correct slide.</i>	<i>"Driver object gets information from currently open XML."</i>	<b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> 0 to 2 - 1
		<i>Text size and position controllable within XML.</i>	<i>"Fill anything not specified with default values."</i>		
			<i>"Write text onto active canvas."</i>		
012	<i>"Client can display images as described in an XML file, so that users can see it."</i>		<i>"Driver object gets information from currently open XML."</i>	<b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> 1
			<i>"Fill anything not specified with default values."</i>		
			<i>"Request from server if file does not already exist."</i>		
			<i>"Display image on currently active canvas."</i>		
013	<i>"Client can display graphics as described</i>		<i>"Driver object gets information from currently open XML."</i>	<b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> 3 to 7 - 3

	<i>in an XML file, so that presentations can look pretty."</i>		<i>"Fill anything not specified with default values."</i>		
			<i>"Draw graphics to currently active canvas."</i>		
014	<i>"Client can display video as described in an XML file, so that users can watch videos."</i>		<i>"Driver object gets information from currently open XML."</i>	<b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> 1 to 3 - 3
			<i>"Fill anything not specified with default values."</i>		
			<i>"Request from server if file does not already exist."</i>		
			<i>"Display video on currently active canvas."</i>		
015	<i>"Client can transition to a different slide on an XML presentation to be able to present all potential data in said file."</i>		<i>"Confirm that presentation slide has changed."</i>	<b>Related Feature ID:</b> TP008	<b>Ideal Days:</b> 0 to 3 - 2

## MID PRIORITIES

#	STORY	REQUIREMENTS	TESTS	NOTES	IDEAL DAYS / VELOCITY
016	<i>“As a user I want a digital whiteboard I can draw on using the mouse so that I can take notes within the app.”</i>	<i>There is a separate page or tab for the whiteboard.</i>	<i>“New JavaFX Stage created”</i>	<b>Related Feature ID:</b> TP011	<b>Ideal Days:</b> Range: 1 to 5 Average: 3 Discussed: 3
		<i>The whiteboard is drawn on using the mouse.</i>	<i>“The stage contains a JavaFX Canvas node”</i>		
			<i>“The users mouse input click coordinates can be detected”</i>		
			<i>“A pixel on the canvas can change colour where the user clicks”</i>		
			<i>“When the mouse button is held down all pixels under the mouse change colour”</i>		
			<i>“When a user clicks in previously coloured location, colour remains the same.”</i>		
017	<i>“As a Tutor I want to mirror the digital</i>		<i>“Establish a connection to the server.”</i>	<b>Related Feature ID:</b> TP011	<b>Ideal Day:</b> Range: 5 to 7

	<i>whiteboard to multiple people so that I can share notes."</i>		<i>"Establish who is connected to the whiteboard session."</i>		Average: 7 Discussed: 7
			<i>"Changes converted into streamable format and sent to server"</i>		
			<i>"Clients updated with changes."</i>		
018	<i>"As a Tutor I want the digital whiteboard to have a choice of shapes that can be drawn so that information can be shared more easily."</i>		<i>"Confirm JavaFX buttons displayed to the user and have function when clicked."</i>	Updated to rearrange the shapes/pen/attribute stories.	<b>Ideal Days:</b> Range: 2 to 3 Average: 3 Discussed: 3
			<i>"When Shape is chosen and drawn on screen a shape object is created"</i>	<b>Related Feature ID:</b> TP011	
019	<i>"As a user I want the digital whiteboard to allow the attributes of pen and drawn shapes to be modified, including line weight, colour and filled/unfilled shapes to allow greater detail in drawn diagrams."</i>		<i>"Attributes associated with these elements."</i>	<b>Related Feature ID:</b> TP011	<b>Ideal Days:</b> Range: 2 to 5 Average: 3 Discussed: 3
			<i>"Buttons that have actions to affect these elements."</i>		
			<i>"Confirm that elements change when the button is pressed."</i>		
020	<i>"As the server manager I'd like the client to keep</i>	A heartbeat service that produces a regular		<b>Related Feature ID:</b> TP001	<b>Ideal Days:</b> Range: 2 to 5



	<i>the server informed of its connection so that the server can close the thread if the client disconnects."</i>	message to send to the server.			Average: 3 Discussed: 3
		The server keeps a client handler thread open only if the client regularly sends a heartbeat message.			
021	<i>"As a user I want the digital whiteboard to allow text input so that I can quickly type comments or notes."</i>	User can input text into a text box and then print the text onto the canvas using the mouse.	"Confirm JavaFX buttons displayed to the user and have function when clicked." "When Text is chosen an editable text box is generated for the user to insert text." "When text is written and printed on screen a text object is created." "Test text element is drawn on canvas."	Related Feature ID: TP011	Ideal Days: Range: 2 to 5 Average: 3 Discussed: 3
022	<i>"In private session, presenter can control learner access to a shared digital whiteboard so that the</i>	There is a button that only the tutor can see.	"Test tutor has access to button." "Test student does not have access to button."	Start with mirroring 2 panels, then add content. Related Feature ID: TP011	Ideal Days: Range: 0 to 3 Average: 2 Discussed: 2

	<i>learner can present ideas and information more easily to the presenter."</i>	Tutor can toggle the button to share the whiteboard access with the student.	"Test student sending session package with access is updated to canvas." "Test student sending session package without access is denied."		
023	<i>"A presentation can be hosted by a tutor and be viewed by students as the tutor moves through the slides this is updated on the students side so that the presenter can coalesce data efficiently before the lesson is live."</i>	Tutor can advance or go back a slide and this change will be mirrored on a student's screen A slide can be advanced by the timing manager and this change will be mirrored on a student's screen	"Test tutor can change slide and have the change reflected on their screen" "Test tutor can change slide and have the change reflected on student's screen" "Test timing manager can advance slide and have the change reflected on their screen" "Test timing manager can advance slide and have the change reflected on student's screen"	Related Feature ID: TP010	Ideal Days: Range: 1 to 7 Average: 3 Discussed: 3
024	<i>"If the tutor plays a video within the presentation this plays on the students side also so</i>	A video within a slide is played the same on both the the tutor's and the student's screens	"Test videos are the same video on both screens" 	Related Feature ID: TP010	Ideal Days: Range: 2 to 7 Average: 5 Discussed: 3

	<i>that what the tutor presents is the same as what the students see."</i>		"Test videos start at the same time on both screens"		
025	"Users webcam or audio is streamed to the server and buffered"			Related Feature ID: TP017	Ideal Days: Range: 3 to 5 Average: 4 Discussed: 4
026	"User is sent webcam or audio data from the server and it is displayed to them"			Related Feature ID: TP017	Ideal Days: Range: 2 to 4 Average: 3 Discussed: 3
027	<i>"User selects a lesson and is taken to the main lesson room, showing current slide, presenter webcam, text chat box"</i>	A student's view is taken from the main screen to the presentation screen.		Related Feature ID: TP010	Ideal Days: Range: 1 to 2 Average: 1 Discussed: 1

028	<i>“Presenter is able to switch the main view between slides and a digital whiteboard”</i>	Tutor can select from a selection of tabs.		Related Feature ID: TP012	Ideal Days: Range: 0 to 1 Average: 0.5 Discussed: 0.5
		Each respective tab changes the current presented view.			
029	<i>“User(s) are able to communicate with presenter via text chat only sending UNICODE”</i>	<i>User is presented with a text window.</i>	<i>“Window is presented.”</i>	Related Feature ID: TP016	Ideal Days: Range: 1 to 5 Average: 3 Discussed: 3
		<i>Users can enter text into the window.</i>	<i>“Text input accepts unicode.”</i>		
		<i>Text is sent to the server and updated client side.</i>	<i>“Contents of the text chat are the same for client and server.”</i>		
030	<i>“Users can choose a subject from the list and add it to a personal list of interested/expertise subjects.”</i>		<i>“Simulate sending a chosen subject from client as a User to server and verify reception by server.”</i>	Related Feature ID: TP013	Ideal Days: Range: 0 to 3 Average: 2 Discussed: 2
			<i>“Confirm chosen subject has been added to the list for that specific user.”</i>		
			<i>“Verify server displays “invalid subject” if subject from client</i>		

			<i>isn't in the master list of subjects."</i>		
031	<b><i>"As a user, I would like a screen layout to view a selected stream."</i></b>	<i>There is a window for viewing a Tutor's stream.</i>	<i>"Client can display a layout/placeholders for the content being streamed."</i>	<b>Related Feature ID:</b> TP010	<b>Ideal Days:</b> Discussed: 1.5
		<i>There is a general screen which has all content being presented visible, as well as individual tabs to view each piece of presented content on its own.</i>	<i>"Client can change the currently viewed screen by clicking on a tab."</i>		
032	<b><i>"As a user, I would like a dynamic main landing which changes with new content on the platform."</i></b>	<i>The main screen is dynamic and reflects changes present on the server side.</i>	<i>"Client requests list of active courses from the server."</i>	<b>Related Feature ID:</b> TP003	<b>Ideal Days:</b> Discussed: 2
			<i>"Client receives list from the server."</i>		
			<i>"Client generates the correct amount of content placeholders needed to contain course data."</i>		
			<i>"Client places content extracted from server into content placeholders."</i>		

## LOW PRIORITIES

STORY	TESTS	NOTES	IDEAL DAYS / VELOCITY
<b><i>“User can see when a lesson is scheduled to be live and book in to get an email reminder”</i></b>	<i>“Simulate a lesson that is yet to go live.”</i>		
	<i>“Verify the time set for the lesson where the lesson information is located.”</i>		
	<i>“Try to book in on a non-live lesson with a User account.”</i>		
	<i>“Verify if an email is sent to the User account’s email when the lesson goes live.”</i>		
<b><i>“User can see a Presenter’s previously streamed lessons and can click to view recordings of said lessons”</i></b>	<i>“Simulate a Presenter account with a previous stream history.”</i>	<i>(with Presenter equivalent)</i>  <i>“Try locating a collection of Presenter account’s previous streams, logged in as that account”</i>	
	<i>“Try locating a collection of Presenter account’s previous streams.”</i>		
	<i>“Try selecting a stream from the collection.”</i>		
<b><i>“User can search for lessons and filter by various tags e.g. education level, subject matter, tutor language etc.”</i></b>	<i>“Simulate a collection of available lessons.”</i>		
	<i>“Try finding a lesson using relevant search terms.”</i>		

	<i>“Try filtering search list with all available filters.”</i>		
<b><i>“Users in a group session are able to flag other users chats as good questions, these would be highlighted to the presenter once a threshold is reached.”</i></b>	<i>“Simulate a lesson with a chat room.”</i>		
	<i>“Try flagging a message in lesson chat room (on a User account) and verify the message gets flagged.”</i>		
	<i>“Simulate flagging a message to the threshold amount required to be highlighted and verify that the message gets highlighted.”</i>		
<b><i>“User can see their recent and frequently visited tutors.”</i></b>	<i>“Simulate a User account with a watch history.”</i>		
	<i>“Verify the tutor watch data represented on the User account.”</i>		
<b><i>“Presenter can kick users from a public lesson if they are reported for antisocial behaviour.”</i></b>			

<b><i>“User and Presenter can block other users and presenters, blocked users will be able to be unblocked on a separate Block List page.”</i></b>			
<b><i>“Presenters can create roles which have permissions within the Presenter channel, the Presenter can then assign Users these roles.”</i></b>			
<b><i>“Users can report private or public lessons for inappropriate content.”</i></b>			
<b><i>“Presenters are able to pose questions to the group using multiple choice questions and see</i></b>		(Outside of current scope)	



<i>what percentage of users chose what answer</i>			
<i>“User can type notes which are saved/linked to the record/VOD of the lesson.”</i>			
<i>“Presenters can ‘host’ other Presenters’ lessons (the ‘hosted’ stream is also cast on the host Presenter’s channel).”</i>			
<i>“Presenters can curate lists of previous recorded streams as ‘Courses’.”</i>			

<i>“User can follow their favorite tutors so that a user can be notified when a tutor they find useful goes live.”</i>		<p>Refine with customer what sort of notifications this will use. Do they get notifications outside of the app.</p> <p><b>Development Start Date:</b> <b>Iteration Dates:</b> <b>Implementation Date:</b></p>	<p><b>Ideal Days:</b> Range: 1 to 5 Average: 3 Discussed: 3</p> <p><b>Velocity: 6</b></p>
<i>“User can see a variety of different lessons that are currently live so that the user has a wide amount of viewing choice at any one time, and can branch out to previously unconsidered topics.”</i>		<p><b>Development Start Date:</b> <b>Iteration Dates:</b> <b>Implementation Date:</b></p>	<p><b>Ideal Days:</b> Range: 2 to 7 Average: 5 Discussed: 7</p> <p><b>Velocity: 14</b></p>
<i>“Server sends list of subjects to client.”</i>	<i>“Simulate sending list of subjects from server and verify reception by client.”</i>	<p><b>Development Start Date:</b> <b>Iteration Dates:</b> <b>Implementation Date:</b></p>	<p><b>Ideal Days:</b> Range: 1 to 3 Average: 2 Discussed: 2</p> <p><b>Velocity: 4</b></p>
	<i>“Verify client displays “no subject are available” error message if not list received”.</i>		
	<i>“Verify client displays “invalid subject list” error message if correctly formatted list isn't received.”</i>		
<i>“As a tutor I want the digital whiteboard to have a variety of</i>		<i>“Field associated with Symbols, potentially using Unicode”</i>	

<i>mathematical symbols that can be inserted to allow easier and clearer writing of equations to the whiteboard."</i>		"There are JavaFX buttons with actions associated"	
		"Pressing a button creates a text object of that symbol that can be added to the whiteboard."	