

**WorldVUZE Use Case List and Key Components**

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| **Use Case ID** | **Use Case Name** | **Primary Actor** | **Scope** | **Complexity** | **Priority** |
| 1 | Creates an Account | Teacher |  |  |  |
| 2 | Creates Class Profile | Teacher |  |  |  |
| 3 | Assigns Student Avatars | Teacher |  |  |  |
| 4 | Fills Out Class Curriculum | Teacher |  |  |  |
| **5** | Searches Other Classroom Threads | Teacher |  |  |  |
| **6** | Sort Thread Responses | Student |  |  |  |
| 7 | Adds Posts and Comments to Threads | Student |  |  |  |
| 8 | Monitors Posts and Comments of their Class | Teacher |  |  |  |
| 9 | Moderate Content | Teacher |  |  |  |
| **10** | Front End Interface | WorldVUZE Team |  |  |  |
| **11** | Database | WorldVUZE Team |  |  |  |

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| **Use Case Element** | **Description** |
| Use Case Number | 1 |
| Application |  |
| Use Case Name | Create an Account |
| Use Case Description | A teacher wants to connect her/his class to other classrooms locally and internationally for students to exchange thoughts and experiences |
| Primary Actor | Teacher |
| Precondition | There is at least one other classroom on the platform. That classroom has access to the Internet. |
| Trigger |  |
| Basic Flow | Teacher creates an account for her/his class and is identified as a real teacher connected to our network (trust community model). Information provided by the teacher includes: name, school name, location, email, and name and email of person connecting them to our network |
| Alternate Flow | Teacher is not identified as a real teacher |

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| **Use Case Element** | **Description** |
| Use Case Number | 2 |
| Application |  |
| Use Case Name | Create Class Profile |
| Use Case Description | A teacher is prompted to create a profile for her/his class for other classrooms on the platform to understand some basic information about them. Part of the profile will already be set-up for him/her using information from their account (name of school, location). The teacher will add: age range of students, class username, languages spoken, languages the class would like to learn, and attach a photo. |
| Primary Actor | Teacher |
| Precondition | Teacher has created an account. The account was accepted as secure. |
| Trigger |  |
| Basic Flow | The teacher fills out basic information about her/his class, being prompted for answers to simple questions step by step |
| Alternate Flow | * The Internet logs off part way * The teacher is confused and stops part way |

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| **Use Case Element** | **Description** |
| Use Case Number | 3 |
| Application |  |
| Use Case Name | Assign Student Avatars |
| Use Case Description | The teacher types in the names of all of his/her students in order for avatars to be randomly generated and assigned to each student in the class. Avatars will be used to communicate with on the platform. |
| Primary Actor | Teacher |
| Precondition | An account has already been created. The teacher has created a basic profile for the class. |
| Trigger |  |
| Basic Flow | The teacher types in the number of students in the class. Randomly generated avatars appear, as many as the teacher has identified. The teacher assigns each avatar the name of one of his/her students (private view). The teacher assigns a username for each avatar (public view) – could be student’s first name and last initial. |
| Alternate Flow | * Internet failure part way * The teacher is confused, what is an avatar? |

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| **Use Case Element** | **Description** |
| Use Case Number | 4 |
| Application |  |
| Use Case Name | Fill Out Class Curriculum |
| Use Case Description | The teacher is prompted to fill out information about the curriculum they are teaching step-by-step. This will assist with generating conversations between classrooms, especially around topics of mutual interest |
| Primary Actor | Teacher |
| Precondition | Set up account, basic profile and student avatars |
| Trigger |  |
| Basic Flow | Teacher is prompted to type in the subjects they are teaching (example: geography, science, English) and at least 1 sub-topic under each subject (for example: water, genetics, science fiction novels) |
| Alternate Flow | * Internet failure * Teacher confusion |

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| **Use Case Element** | **Description** |
| Use Case Number | **5** |
| Application |  |
| Use Case Name | **Search Other Classroom Threads** |
| Use Case Description | The teacher can look at what other classrooms are discussing as a basis for directing his/her students to relevant discussions |
| Primary Actor | Teacher |
| Precondition | Created an account. Set up Class Profile. Assigned Student Avatars. Filled out Class Curriculum |
| Trigger |  |
| Basic Flow | At the beginning, all of the classes on the platform will be located on the right hand side of their class home page. The teacher can click on each classroom and look at what other classrooms have posted on their profile, under class curriculum.  They can either contribute to an already existing thread of another classroom or start a new thread discussion of their own (for others to join). When a new thread is created, a notification to all classrooms will be sent to check it out and contribute.  When a thread of interest is found the teacher can assign it (subscribe to it) and organize it under one of the headings previously created by subject, sub-topic or perhaps extra-curricular. (Students will also be able to do subscribe to threads of their own personal interest).  Notifications on WorldVUZE and also through email will be sent when new threads are added to a subject/topic of interest and/or when others have responded to a thread he/she has posted. |
| Alternate Flow | * Internet failure * Teacher confusion * May be intimidated to start the first thread, perhaps we can provide suggestions |

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| **Use Case Element** | **Description** |
| Use Case Number | **6** |
| Application |  |
| Use Case Name | **Sort Thread Responses** |
| Use Case Description | Students can sort thread responses by class, geographic location, and age. To quickly filter responses they are curious to learn about. For example, they may be curious to see the responses from a class in China or maybe even their own class, or they may only be interested in the responses of students within a certain age range. |
| Primary Actor | Students |
| Precondition | Created an account. Set up Class Profile. Assigned Student Avatars. Filled out Class Curriculum. (Teacher does not necessarily have to search for through other classroom threads, can ask students to do that work for them..) |
| Trigger |  |
| Basic Flow | Students are already in a thread they are interested in and are interested in seeing just the posts of certain types of students. Filtering responses will allow them to achieve this goal, then students will be able to insert new posts or comments based on these results. |
| Alternate Flow | * Internet failure * Teacher confusion * Avatar, problems communicating as assigned |

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| **Use Case Element** | **Description** |
| Use Case Number | 7 |
| Application |  |
| Use Case Name | Add Posts and Comments to Threads |
| Use Case Description | The teacher will direct students to add posts and comments to relevant threads. Perhaps threads that are well-liked by the class can be become a “favorite” and be redirected to the class home page (categorized under one of the class subjects/sub-topics or other/extracurricular) |
| Primary Actor | Students |
| Precondition | Created an account. Set up Class Profile. Assigned Student Avatars. Filled out Class Curriculum. (Teacher does not necessarily have to search for through other classroom threads, can ask students to do that work for them..) |
| Trigger |  |
| Basic Flow | Each student communicates as their pre-assigned avatar. They will click on their avatar and be able to communicate as that ‘person’ by adding posts and comments to threads. Thread posts can be sorted by entries by class. |
| Alternate Flow | * Internet failure * Teacher confusion * Avatar, problems communicating as assigned |

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| **Use Case Element** | **Description** |
| Use Case Number | 8 |
| Application |  |
| Use Case Name | Monitor Posts and Comments of Their Class |
| Use Case Description | Student comments/posts will be redirected to the teacher view, so that the teacher can see what their students have been contributing. |
| Primary Actor | Teacher |
| Precondition | Created an account. Set up Class Profile. Assigned Student Avatars. Filled out Class Curriculum. Students have contributed posts or comments. |
| Trigger |  |
| Basic Flow | all comments and posts of each student will be redirected to the teacher view - categorized by student, and also categorized by subject/sub-topic |
| Alternate Flow | * Internet failure * Teacher confusion * Avatar, problems communicating as assigned |

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| **Use Case Element** | **Description** |
| Use Case Number | 9 |
| Application |  |
| Use Case Name | Moderate Content |
| Use Case Description | Automatically block certain words (personal identification of students, contact information, profanity); Filter on other words with potentially negative implications (i.e. knife, kill, etc.) – posts with this content can be hidden from view of students, until the teacher ‘unhides’ the post |
| Primary Actor | Teacher |
| Precondition | Created an account. Set up Class Profile. Assigned Student Avatars. Filled out Class Curriculum. Students have contributed posts or comments. |
| Trigger |  |
| Basic Flow | all comments and posts of each student will be redirected to the teacher view - categorized by student, and also categorized by subject/sub-topic |
| Alternate Flow | * some ‘hidden’ posts will never be seen by students, even if the content is not offensive |

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| **Use Case Element** | **Description** |
| Use Case Number | **10** |
| Application |  |
| Use Case Name | **Front End Interface** |
| Use Case Description | A static front end website interface that we (WorldVUZE Team) and select educators (at this beginning stage) can log in and see visually what the core features of the WorldVUZE platform would look like.  We do not require the ability for educators and students to input data directly into the platform at this stage. We can input that data ourselves through a simple database (see use case 11).  These core features are:   * Class profile * Class curriculum * Threads * Global Community (consisting of only the first 6-8 classroom buttons) – **see simplified wireframes** |
| Primary Actor | WorldVUZE Team |
| Precondition | Need digital wireframes (see aesthetic wireframes). ?? |
| Trigger |  |
| Basic Flow | This interface would allow for teachers to see visually what the platform would look like and to interact with real data from a pilot of 6-8 classrooms. Teachers and students should be able to click and filter (to some extent) on content interactively (as if it were the real platform). They will not, however, at this stage need to have the capability to input information on the platform. |
| Alternate Flow | * **This is the first priority** |

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| **Use Case Element** | **Description** |
| Use Case Number | **11** |
| Application |  |
| Use Case Name | **Database** |
| Use Case Description | For the first pilot of the prototype we will work with 6-8 diverse classrooms to gather data to put into the database. This data will consist of:   * Class profile (class and school name, grade, age of students, location of school, languages spoken) (also will answer simple questions such as what do you like to do for fun? What are the biggest problems in your community?) * Student Avatars (class list of names) * Class curriculum (subjects and sub-topics learned in school) * Class question (each class will ask one question for all other pilot classrooms to respond to) (this question they can link to a particular curriculum subject or sub-topic of choice) * Responses to all class questions of pilot classrooms |
| Primary Actor | WorldVUZE Team |
| Precondition | If possible, create a database that connects information we input on the back-end to content on the front-end interface |
| Trigger |  |
| Basic Flow | After we have gathered information from the pilot classrooms, we can input their data into the database. This data will subsequently be added to the front end interface |
| Alternate Flow |  |

**Use Case Priorities:**

**First Priority: 10**

**Second Priority: 5**

**Third Priority: 6**

**Fourth Priority: 11**

**For Prototype**

What we will need to achieve in the first prototype – web-based interface with the look of the wireframes

Need the ability to allow teachers and students to:

1. search other class home pages
2. search and look at threads of other classrooms as well as their own
3. sort thread responses by class/age/geographic location
4. observe ‘teacher view’, posts contributed by students in the class

The rest we can fill in manually through conversation with teachers directly

* get background info on class for class profile
* assign class avatars to individual students
* fill out class curriculum – subject, sub-topics and keywords
* gather thread questions/statements for discussion
* gather responses to threads (think of ways to do this easily) from prototype classroom community

Achieved through small sample size of 6 classrooms of motivated teachers, representing at least 3 countries. (50% elementary and 50% secondary/ high school)

**Info provided by classes (through Survey Monkey or word docs):**

1. Info for class profile
2. Curriculum info
3. Class list (names of students)
4. 1 thread question/statement for other 5 classes to respond to (this thread will be categorized by subject and sub-topic (if applicable)

**We will take this information and develop** a web-based interface that teachers can view content provided by 6 classrooms as if it were the real platform (with look of wireframes)

* we will enter in the class profiles
* we will enter in the class curriculum
* we will assign student avatars
* we will sort threads by subject/sub-topic
* we will set up a function to sort thread posts by class/age/geographic location
* we will sort student posts into the teacher view