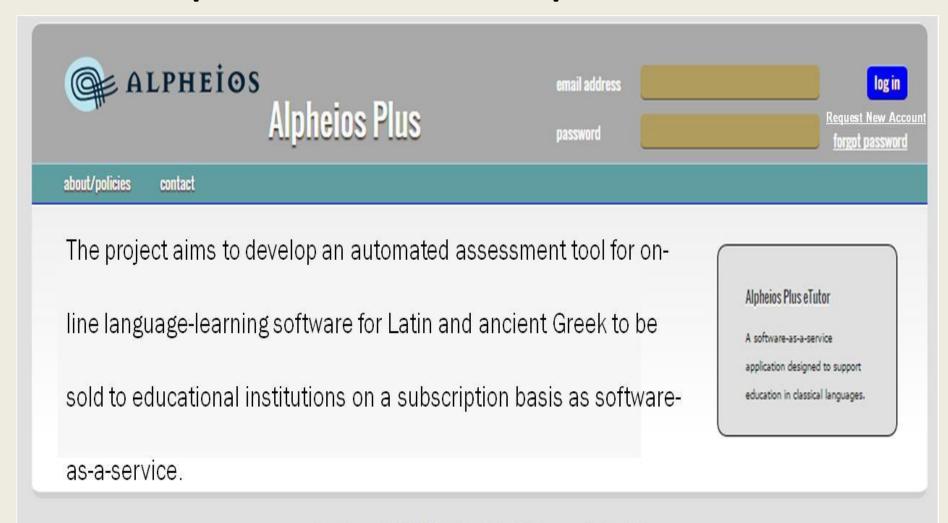
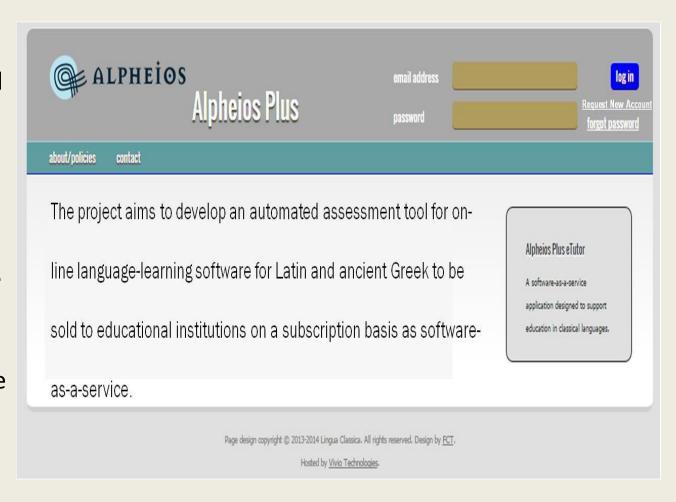
Alpheios Plus Requirements



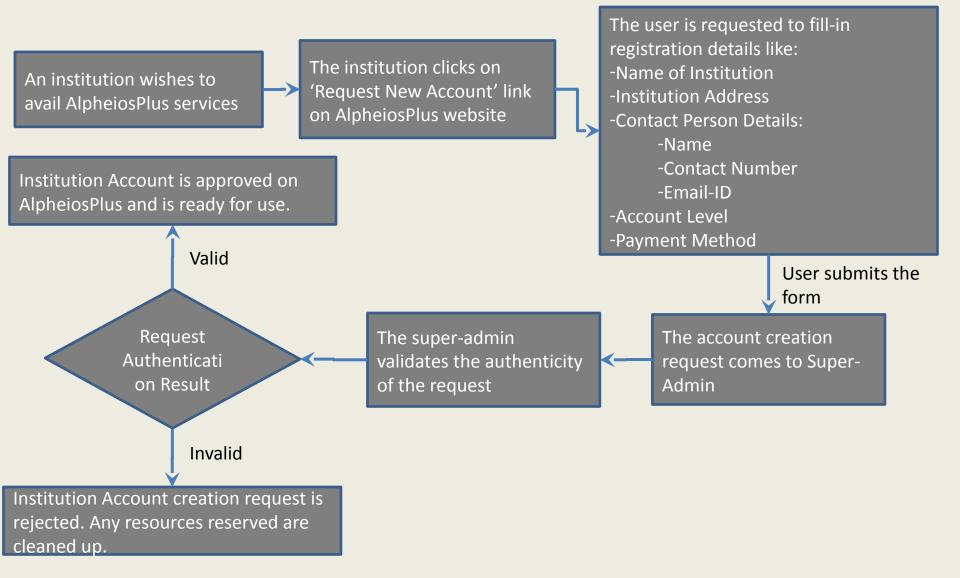
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Login Page

- Page URL: http://XYZ
- Any visitor is expected to login first to avail any services being offered by AlpheiosPlus.
- Page shall show information about the project and its goal, mission and vision.
- Page shall also provide facility to 'Request New Account' and 'forgot password'



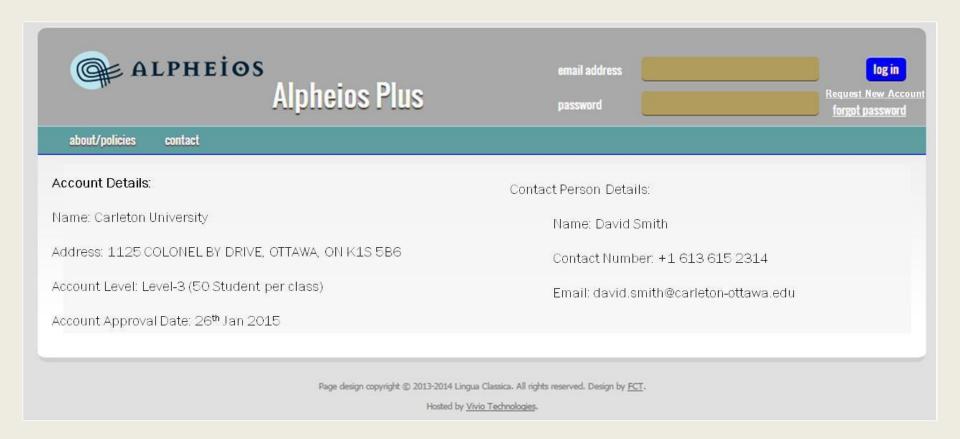
Account Creation Process



Account Creation Process

- The services of AlpheiosPlus project are mainly for universities and institutions teaching classic languages, and they are not for individual students or personnel.
- Each institution that wants to avail services provided by AlpheoisPlus needs to register first.
- The registration shall request institution to provide:
 - Name of Institution
 - Account Level: Shall also suggest how many students are allowed per class etc.
 - Contact Information: Name, Contact Number and Email-ID of the contact person.
- Account creation request must be approved by super-admin and then the account is available on AlpheiosPlus for login by institution.
- The account once created is assigned below values by the system:
 - Account Approval Date: Date on which this account was approved as a valid account on AlpheiosPlus.

Account Creation Process - UI



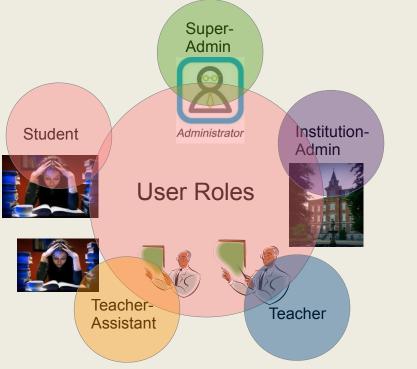
User Roles

- There will be 4 types of roles supported for AlpheiosPlus project.
- Any user created on AlpheiosPlus shall be associated with one role ONLY.
- Those roles shall be:
 - **Super Admin:** Admin from AlpheiosPlus side who has complete access to whole system
 - **Institution Admin:** User with complete access to a particular institution..
 - Teacher: User teaching at an institution and having rights to create and check various exercises

- **Teaching Assistant:** User who is has limited rights as that of a teacher and can also be a student for

some other classes.

Student: User who studies at an institution



User Roles and Access Permissions (Account Related)

 Below table suggests the various roles and their access permissions for the institution Account related processes.

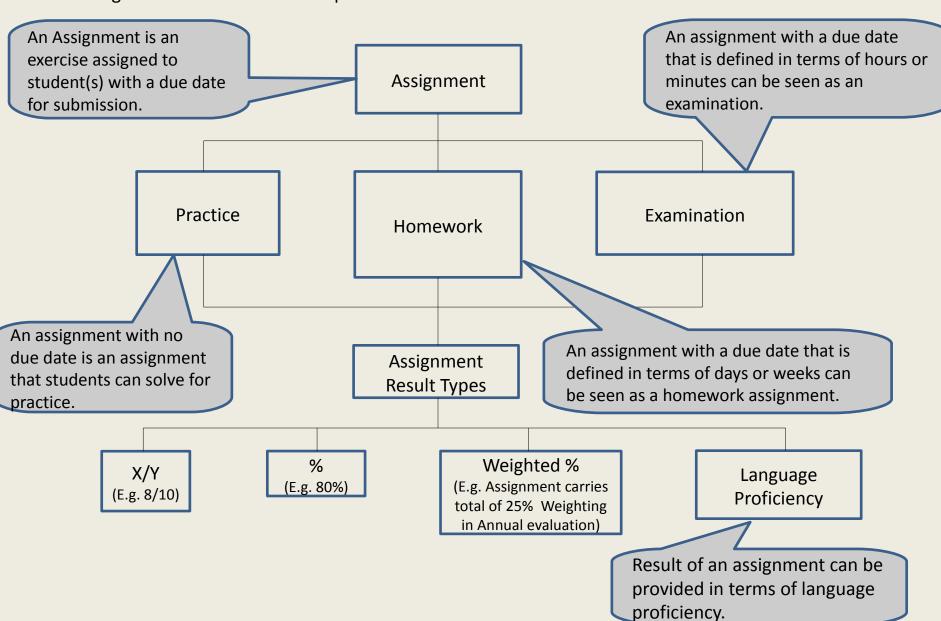
	Create new Account	Update an existing Account	Delete an existing Account	View an existing Account
Super-Admin	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$
Institution- Admin	X	X	X	$\sqrt{}$
Teacher	X	X	X	X
Teacher Assistant	X	X	X	X
Student	X	X	X	X

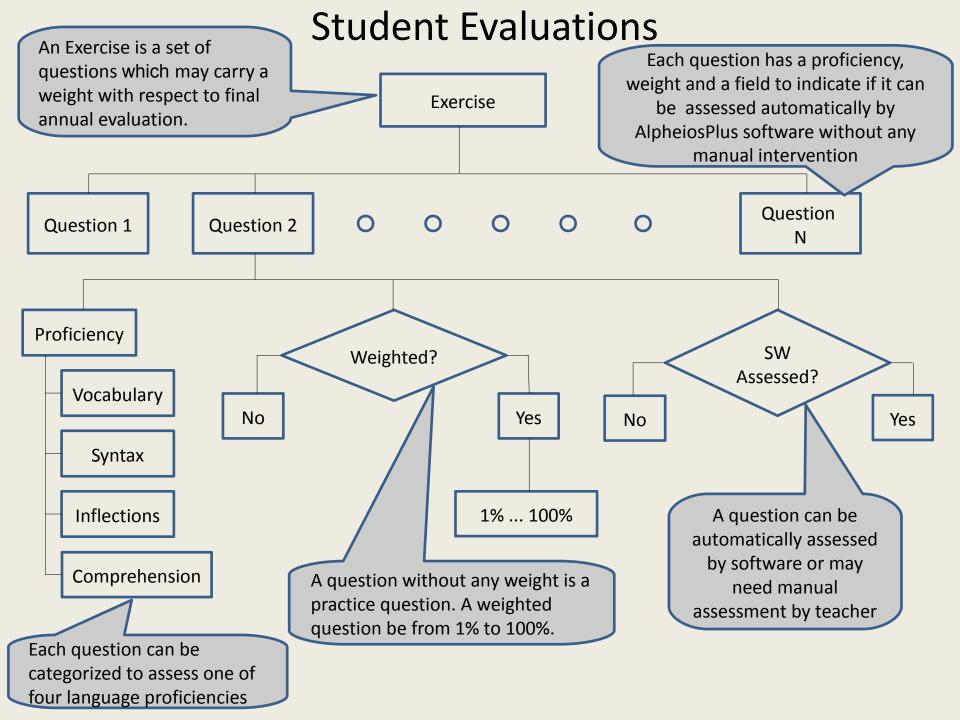
Student Evaluations

- AlpheiosPlus is aimed to allow teachers to create and assign exercises to a class OR a group of students OR a particular student.
- AlpheiosPlus shall also allow to create and assign group assignments to students. This may need group-login functionality to identify the group and individual members of the group.
- The students are expected to take the exercise assigned by teacher, and then get assessed for those exercises and be able to see the results of those exercises.

Student Evaluations

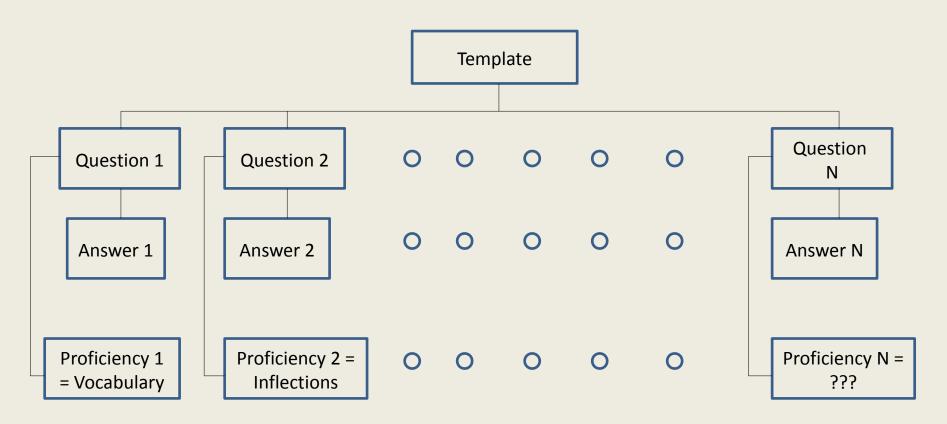
Each assignment can be assessed to provide results of evaluation





Student Evaluations

- For questions that can be automatically assessed by AlpheiosPlus software, the Template is used internally to compare student answers with Template answers.
- A Template is an exercise with correct answers for each question and sugged proficiency type for each question.



Student Evaluations - Exercise Types

- An exercise in AlpheiosPlus is categorized in one of three types mentioned below:
 - 1. **Pre-Cooked:** These are the exercises pre-configured in AlpheoisPlus database and the assessment of these exercises is done completely automatically without any manual intervention. They are universal and are available for all institutions.
 - 2. Semi-Cooked: These are the exercises for which templates are provided by AlpheiosPlus. However, teacher is expected to use the template and create their own exercise. Teacher shall need to provide the correct answers so that AlpheiosPlus can assess the student exercise. These are visible and applicable only within institution boundary.
 - 3. Uncooked: These are the exercises that teachers can build on their own without having any template. Teachers shall need to provide the correct answers also for these exercises so that AlpheiosPlus can assess the student exercise. These are visible and applicable only within institution boundary.

Student Evaluations - Exercise Management – Access Permissions

	Pre-Cooked Exercises		Semi-Cooked Exercises		Un-Cooked Exercises	
	Create/Update/ Delete	View	Create/Update/ Delete	View	Create/Update /Delete	View
Super- Admin	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Institution -Admin	X	$\sqrt{}$	X	$\sqrt{}$	X	$\sqrt{}$
Teacher	X	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Teacher Assistant	X	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
Student	X	$\sqrt{}$	X	$\sqrt{}$	X	$\sqrt{}$

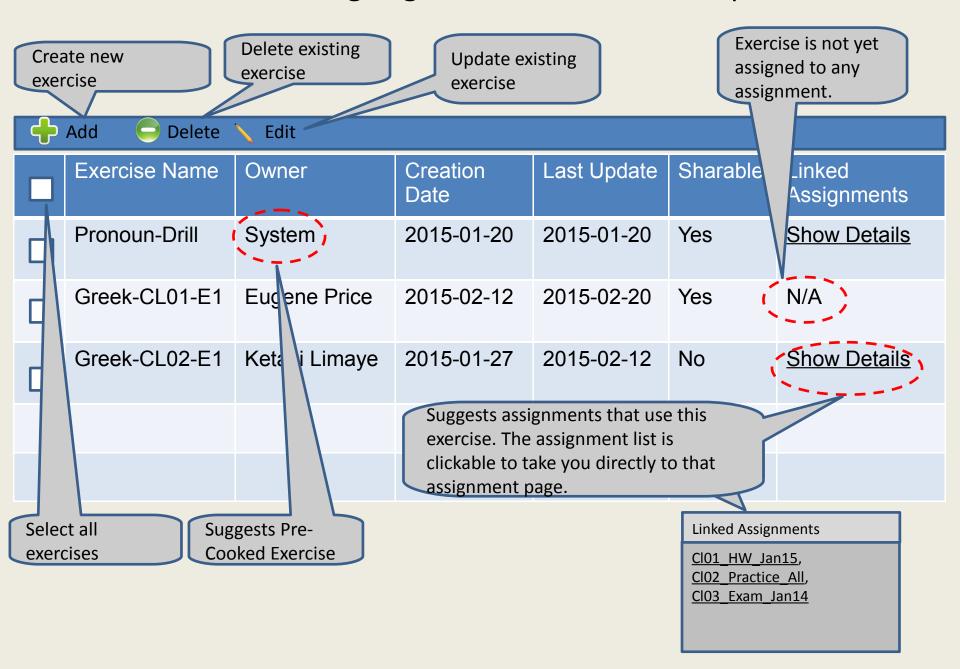
Teacher Landing Page

- If a user with 'Teacher' role logs-in successfully to AlpheiosPlus, he is expected to land on 'Teacher Landing Page'.
- This page shall list:
 - Exercises List: A list of all exercises that are created within the institution boundary along with all pre-cooked exercises.
 - Assignments List: A list of all the assignments that are created within the institution boundary.
 - Announcements/Notifications: List of all announcements/notifications that are applicable to the logged-in teacher.
 - Classes List: A list of all the classes which are assigned to the loggedin teacher for teaching/monitoring or any other purpose.
 - Students List: A list of all the students which are assigned to the classes to which the logged-in teacher is assigned for teaching/monitoring or any other purpose.

Teacher Landing Page – Exercises List

- Lists all the exercises created within institution boundary along with Pre-Cooked exercises for:
 - Exercise Name: Name of exercise
 - Owner: Name of teacher who created/last saved this exercise. In case of pre-cooked exercises, the field shall suggest: 'System'
 - Creation Date: Date when the exercise was first created and saved on AlpheiosPlus.
 - Last Update Date: Date when the exercise was last updated on AlpheiosPlus.
 - Shareable: Suggests if the exercise is currently being shared within the institution boundary or not.
 - Linked Assignments: Suggests list of assignments that are created using the exercise listed.
- The page shall also allow logged-in teacher to create new exercises, update existing exercises or delete existing exercises.

Teacher Landing Page - Exercises List - Sample UI



Teacher Landing Page – Exercises List – Delete An Exercise

- An exercise can be deleted from AlpheiosPlus if:
 - The logged-in user who is trying to delete an exercise is the owner of the exercise (one who created the exercise originally)
 - AND
 - The exercise is not yet assigned to any assignment OR

The exercise is assigned to an assignment, but the assignment due date has not yet

reached.

Need to check this condition and validate

Teacher Landing Page – Exercises List – Create An Exercise

- The logged-in user with role: Teacher or Teacher Assistant can create new exercises on AlpheiosPlus. The exercise being created can be Semi-Cooked or Uncooked.
- For any question, there is always expected to a 'single' answer that could be a single text/number or a delimiter separated answers like: comma separated answers.

Teacher Landing Page Semi-Cooked: Exercises List, Create An Exercise

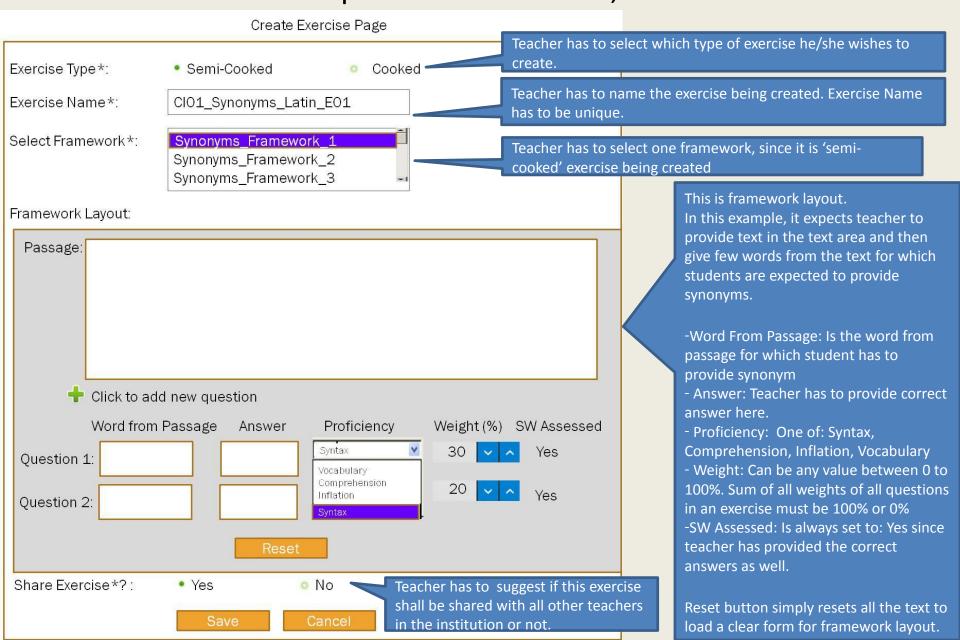
- For Semi-Cooked exercises, the AlpheiosPlus shall have exercise frameworks which are used to create the exercise and also provide the correct answers along with other details like: weight, proficiency etc for each questionanswer pair.
- These exercises are called Semi-Cooked because the teacher can create exercise using the frameworks available and cannot create exercises with variety of other question types that are not supported by the existing framework.
- The frameworks that shall be available at AlpheiosPlus for creating Semi-Cooked exercises shall be as suggested below:
 - Tree Bank
 - Comprehension
 - To be added more here <tobedone>

Teacher Landing Page Semi-Cooked Example: Exercises List, Create An Exercise

- In order to demonstrate an example of creation of new semi-cooked exercise, let us consider an imaginary framework: Latin_Synonyms.
- This imaginary framework allows teacher to give a text paragraph and request synonyms of few words from the paragraph. Each word for which synonym is asked is internally treated as a question which shall have: correct answer(s), proficiency, weight. 'SW Assessed' for each question shall always be 'Yes' since teacher is going to provide the correct answers and AlpheiosPlus thus can assess the student answers without needing any further manual help.
- Next slide shows a sample UI for such exercise creation, just for information purpose. The actual UI implemented might be totally different but shall ensure the functional requirements are being met.

Teacher Landing Page

Semi-Cooked Example UI: Exercises List, Create An Exercise



Versioning of Exercises

- Any exercise being created on AlpheiosPlus shall have a versioning. This
 versioning shall help system to know which student has taken which exercise of
 which version and accordingly take some automatic decisions or help teachers in
 taking some important decisions.
- Simply an exercise creation and saving does not start versioning for the exercise.
 The exercise carries version 1, no matter how many times it is updated, until it is assigned to an assignment.
- Once an exercise is assigned to an assignment, each further update (Save button click on exercise create/edit) to that exercise until the earliest assignment due date is reached, shall increment the exercise version by 1.
- Once an exercise is assigned to assignment(s) and if there is any update done to the exercise, the teacher has to decide whether she wants the students to notify about the exercise/assignment update and wishes them to re-do the exercise/assignment in case they have already saved their work. The teacher is expected to take this decision based on what kind of update is done to the exercise and whether that update is requiring re-assessment of the assignment. E.g. If teacher simply updated the exercise for minor spell mistakes or changed proficiency information for a question, she may not opt for re-notification. However, if she updated a question itself or updated answer for the question, she may need to re-notify the students about the exercise update.

Teacher Landing Page Semi-Cooked: Exercise List, Edit An Exercise

- For Semi-Cooked exercises, the AlpheiosPlus shall allow teacher to update an exercise if:
 - The teacher is owner of that exercise and thus had created that exercise initially.
 - None of the assignments using this exercise have reached their due date. E.g. If an exercise is assigned to: Assignment_1 with due date: 20th March 2015 and to another assignment: Assignment_2 with due date: 25th April 2015, then the exercise can be edited till 20th March.
- The teacher can edit below mentioned fields for the exercise:
 - Exercise Name (Till exercise is not assigned to any assignment)
 - Exercise Sharable (Teacher can opt to share exercise anytime. However, teacher cannot opt out to share an exercise in case the exercise is assigned to any assignment)
 - Framework Layout (Anything in framework layout like: questions, answers, proficiency definitions for questions, weight definitions for questions etc)
- For version management of exercise on exercise update, please refer slide:
 Versioning of Exercises

Teacher Landing Page – Assignments List

- Lists all the assignments created within institution boundary for:
 - Assignment Name: Name of assignment
 - Owner: Name of teacher who created/last saved this assignment.
 - Creation Date: Date when the assignment was first created and saved on AlpheiosPlus.
 - Last Update Date: Date when the assignment was last updated on AlpheiosPlus.
 - Collaborative: Suggests if the assignment is to be submitted as a collaborative work by students.
 - Status: Suggests if assignment is 'Valid' or 'Withdrawn'.
 - Start Date: Date-time when the assignment is open for students to solve.
 - Due Date: Date-time when the assignment is due for submission.
- The page shall also allow logged-in teacher to create new assignments, update existing assignments or delete existing assignments.

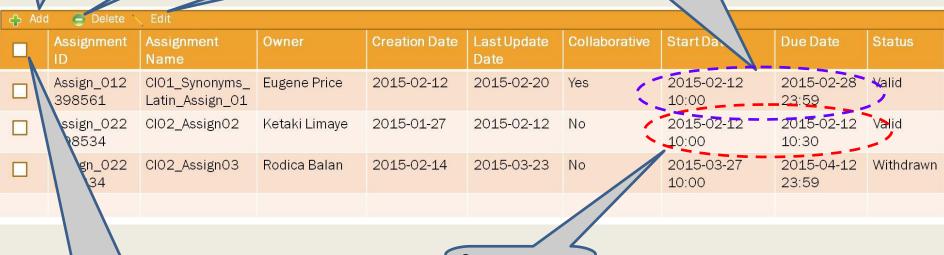
Teacher Landing Page - Assignments List - Sample UI



Delete existing assignment

Update existing assignment

Suggests a homework assignment



Select all assignments

Suggests a test

Teacher Landing Page – Assignments List – Delete An Assignment

- An assignment can be deleted from AlpheiosPlus if:
 - The logged-in user who is trying to delete an assignment is the owner of the assignment (one who created the asignment originally)
 - AND
 - The assignment has not yet reached its Start Date-Time
- Once an assignment reaches its Start Date-Time, it cannot be deleted, but can be withdrawn in case required.

Teacher Landing Page – Assignments List – Create An Assignment

- The logged-in user with role: Teacher or Teacher Assistant can create new assignments on AlpheiosPlus.
- An exercise can be assigned to none, one or many assignments at any time.
- For each assignment that is successfully created on AlpheiosPlus, the system shall assign a unique assignment ID which cannot be edited by any user. However, this ID shall be visible to logged-in users.
- The logged-in user shall need to provide below mentioned fields for creating an assignment.
 - Assignment Name:
 - Any string with A-Z, a-z,0-9 characters with maximum string length = 64.
 - The assignment name is expected to be unique for each assignment owner / assignment creator. E.g. If there is an assignment named: A_01 created by Eugene is already present on AlpheiosPlus, Eugene cannot create another assignment with same name. However, Ketaki can create an assignment with same name as long as Ketaki has not created any assignment with the same name in past.

Teacher Landing Page – Assignments List – Create An Assignment

Select Exercise:

- User can select only one exercise that is used for this assignment.
- The user shall be able to search for exercises that already saved on AlpheiosPlus system using variety of search criteria like: Exercise Name, Owner, Keyword Search, Sharable etc.
- Exercises listed here shall be those exercises that are created by the logged-in user or created by other teachers but shared by them so that it can be used by other teachers.

Assign Students:

- Whole Class:
 - The logged-in user can assign the assignment to a single or more than one whole class.
 - The class list shall display only those classes that are applicable / assigned to the logged-in user.
 - Thus, a teacher can assign same assignment to two classes while creating that assignment.

Group of Students:

- The logged-in user can assign the assignment to a group of students.
- The group of students may belong to same class or may belong to different classes. However, they can belong to only those classes to which the logged-in user teaches / is assigned.
- The logged-in user can search for students based on variety of criteria like: Student Name, Student Class, Student Proficiency Levels etc.

Collaborative:

 Allows logged-in user to suggest whether the assignment being created is expected to be a collaborative submission by the students.

Teacher Landing Page – Assignments List – Create An Assignment

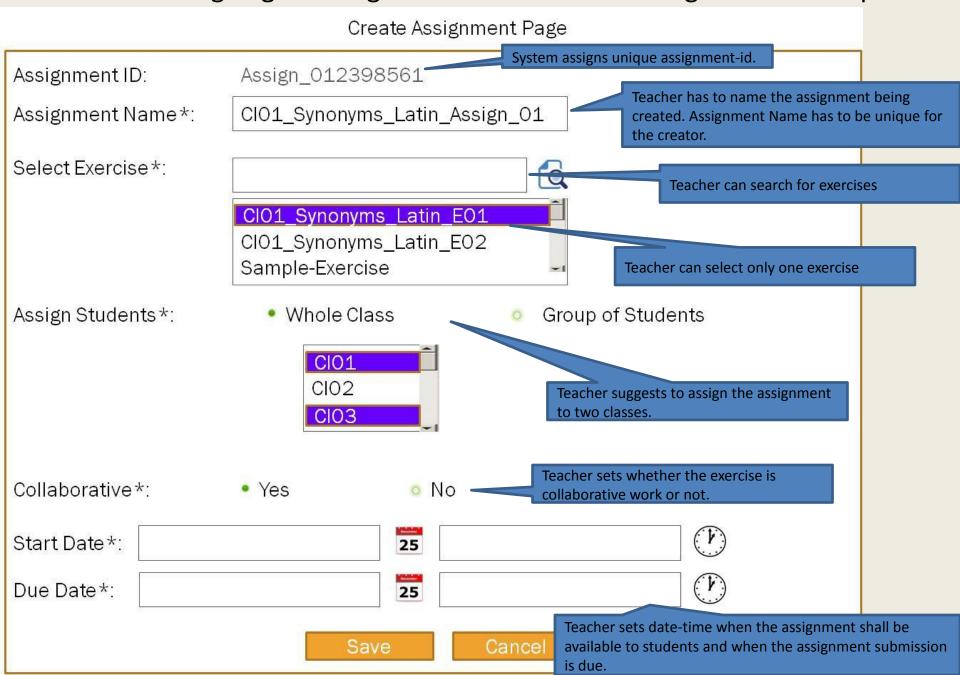
Start Date:

- Allows logged-in user to suggest the date and time after which the assignment shall start getting listed on Student pages for those students to whom this assignment is assigned.
- The Start Date has to be greater than or equal to today's date.
- Suggests the date and time. If time is not explicitly specified, the time is default assumed to be
 23:59
- Start Date should always be greater than or equal to Exercise Create Date.

– Due Date:

- Allows logged-in user to suggest the date and time by which the students are expected to submit the assignment and the date-time after which no updates to the assignment answers are allowed
- The Due Date has to be greater than or equal to Start Date.
- The default time for Due Date is to be set to 23:59 in case it is not explicitly specified.

Teacher Landing Page - Assignments List - Create Assignment - Sample UI



Teacher Landing Page – Assignment List – Edit An Assignment

- An assignment ID is system generated and auto-set by system and hence cannot be edited by any logged-in user.
- The assignment name can be updated anytime as long as it is unique for the creator/owner.
- The exercise presently assigned to the assignment can be updated to a new exercise as long as the assignment has not yet reached its Start Date-Time.
- An assignment can be edited to remove a class that was previously assigned to the assignment, provided the assignment due date-time has not yet reached.
 However, such class removal has to executed only after the user re-confirms the class removal.
- An assignment can be edited to remove a student(s) who was previously assigned to the assignment, provided the assignment due date-time has not yet reached. However, such student removal has to executed only after the user reconfirms the student removal.
- An assignment can be edited to add a student(s) who was not previously
 assigned to the assignment, provided the assignment due date-time has not yet
 reached. However, such student addition has to executed only after the user reconfirms the student add.

Teacher Landing Page – Assignment List – Edit An Assignment

- An assignment can be edited to set it to be collaborative work when the assignment was not previously set for collaborative work until the assignment due date-time has not yet reached. If such an edit is requested after the assignment start date-time has reached, the logged-in user is warned that the individual student work, if any, submitted to date is not retained.
- An assignment can be edited to set it to be non-collaborative work when
 the assignment was previously set for collaborative work until the
 assignment due date-time has not yet reached. If such an edit is requested
 after the assignment start date-time has reached, the logged-in user is
 warned that the collaborative student work, if any, submitted to date is not
 retained.
- An assignment can be edited and set to be 'withdrawn' if wished by the creator/owner of the assignment. The assignment withdrawal might be required when all the students to whom this assignment was assigned find the assignment difficult.

Teacher Landing Page – Assignment List – Edit An Assignment

- An assignment withdrawal expects user to re-confirm the willingness to do so.
- The assignment withdrawal setting shall also allow logged-in user to set the optional withdrawal comments.
- If an assignment is being withdrawn, the logged-in user suggests whether the students to whom this assignment is assigned should be notified about the assignment status change. If opted yes, the system shall show default notification message, which the user can update if wished.

Versioning of Assignments

Versioning of assignments is nice-to-have.

Student Landing Page

- If a user with 'Student' role logs-in successfully to AlpheiosPlus, he is expected to land on 'Student Landing Page'.
- This page shall list:
 - Practice Exercises: A list of exercises that student can take for practice purposes. These exercises need not be assigned by a teacher.
 - Assignments Due: A list of assignments that are not yet submitted and hence student can work on those if wished.
 - Results List: A list of all the exercises that are completed by student and are assessed. This shall also list all the assignments that have reached their due date of submission and are now assessed.
 - Announcements/Notifications: List of all announcements/notifications that are applicable to the logged-in student.

Student Landing Page - UI



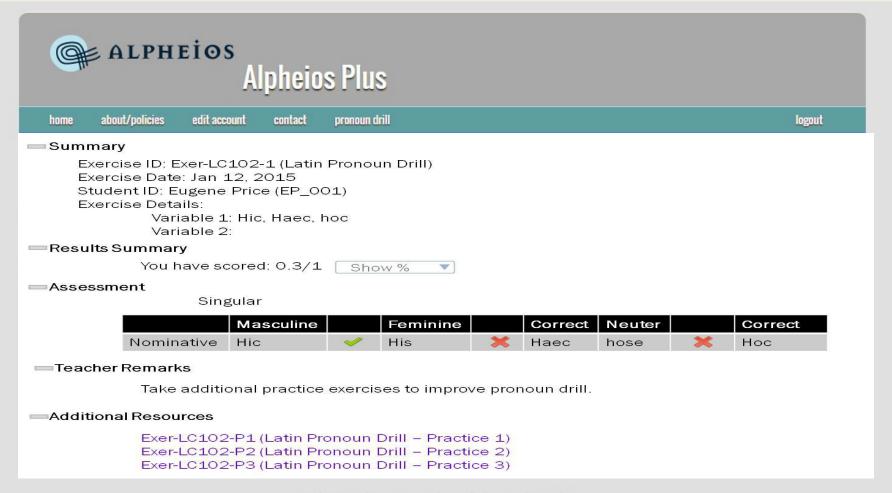
Taking an Exercise

- When a student clicks on an exercise or an assignment that has not yet passed its due date, the student is redirected where he/she can start working on the exercise.
- The student can take exercise that is hosted on AlpheiosPlus or can be redirected to take exercises that are hosted on other organizations.
- This page displays the exercise/assignment and allows user to answer the questions.
- For the exercises that are hosted on AlpheiosPlus, the student can keep saving his work as he answers the questions and this saving ensures the student work is saved in AlpheiosPlus backend. Anytime till the assignment due date is not passed, student can update answers already saved across multiple logins.
- For the exercises that are hosted on other organizations, the student can not save his work which is half done. The student has to take the complete exercise and submit it once. If he needs to update anything in that exercise, he needs to take the whole exercise again.

Results Details Page

- When a student clicks on an exercise or assignment listed at 'Results List' on Student Landing Page, he shall land on 'Results Details Page'
- The page title shall be: 'Results Details Page'
- The page shall have 5 sections:
 - Summary: Suggests summary of exercise / assignment assessed.
 - Results Summary: Suggests overall result in terms of X/Y or % that student has scored for this exercise/assignment.
 - Assessment: Shows the whole exercise/assignment and for which questions student has answered correctly and for which ones he had answered wrong. For wrong answers, student can also see the correct answer that was expected.
 - Teacher Remarks: This shall also display the remarks/comments teacher has put in for the student.
 - Additional Resources: We may implement in future links to other exercises that are linked to this exercise/assignment that the student can take for practicing.

Exercise Results Page



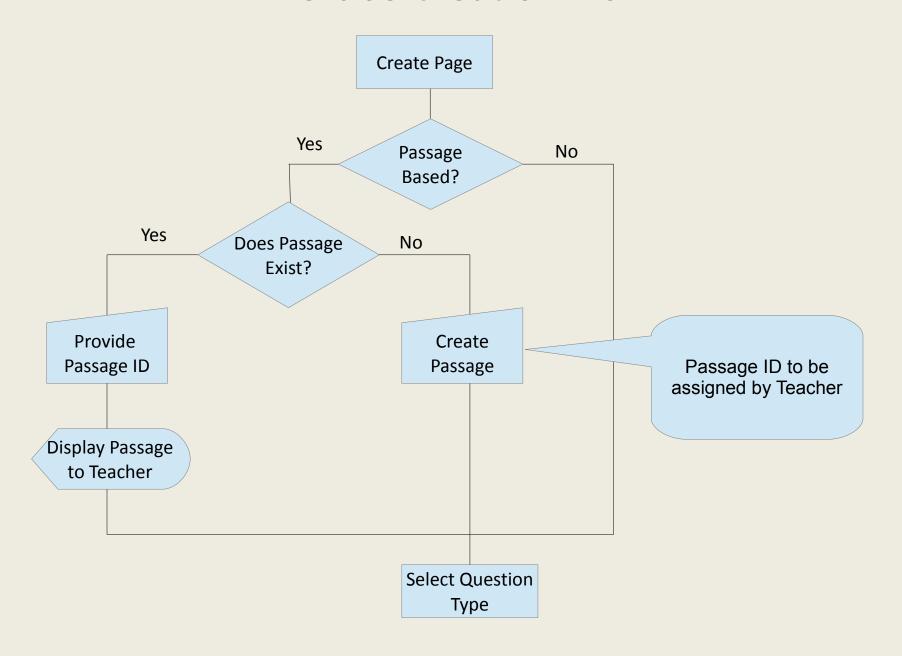
Page design copyright @ 2014 Lingua Classica. All rights reserved. Design by FCT.

Hosted by Vivio Technologies.

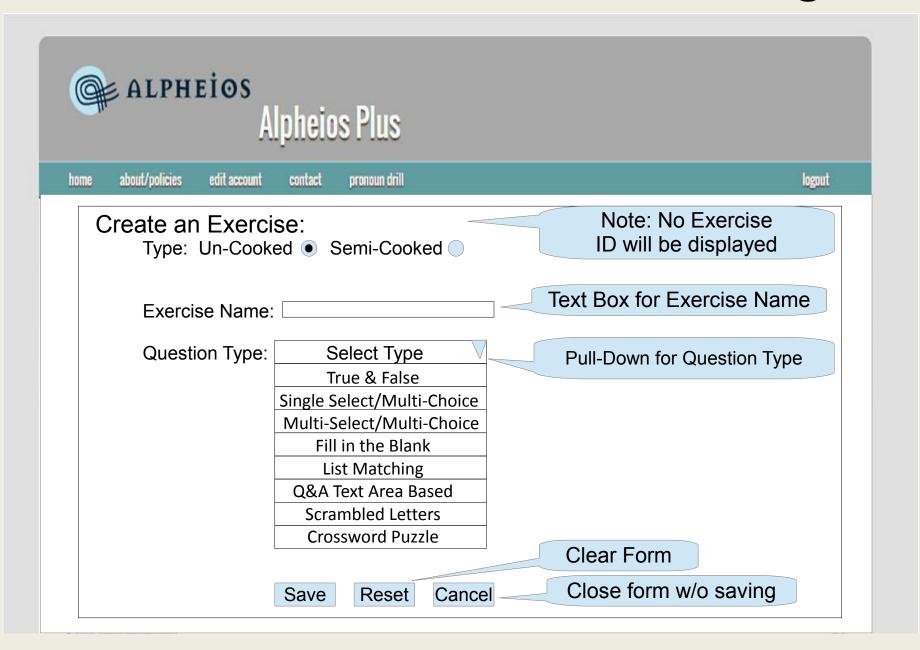
"Un-Cooked" Exercise Creation

- Question Categories:
 - 1. True & False
 - 2. Single Select/Multi-Choice
 - 3. Multi-Select/Multi-Choice
 - 4. Fill in the Blank
 - 5. List Matching (Match the Pair)
 - 6. Q&A Text Area Based
 - 7. Scrambled Letters (Scrabble)
 - 8. Crossword Puzzle (Up, Down, Horizontal)
 - 9. Passage Based Question

Exercise Creation Flow

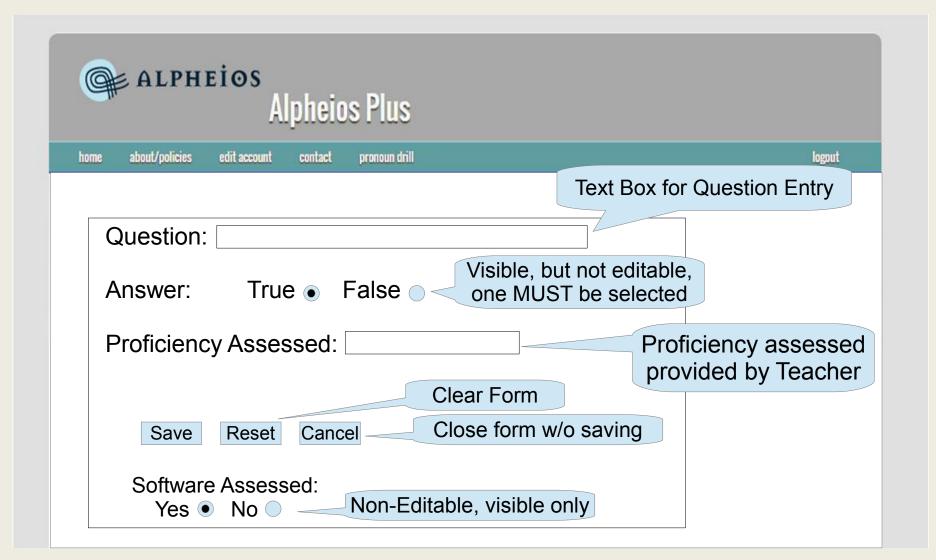


"Un-cooked" Exercise Creation Page

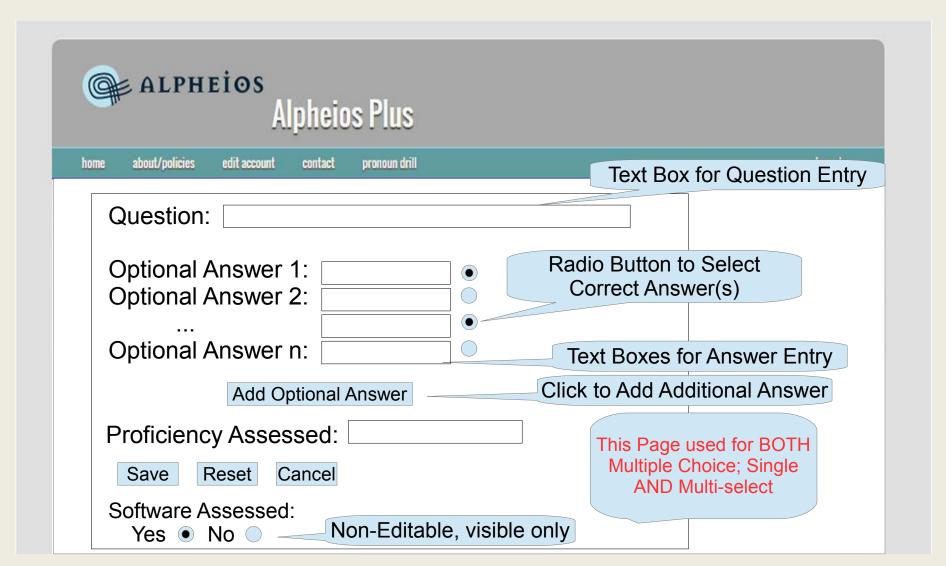


1. True & False

 Created Question (in the form of a statement) MUST have only one correct answer

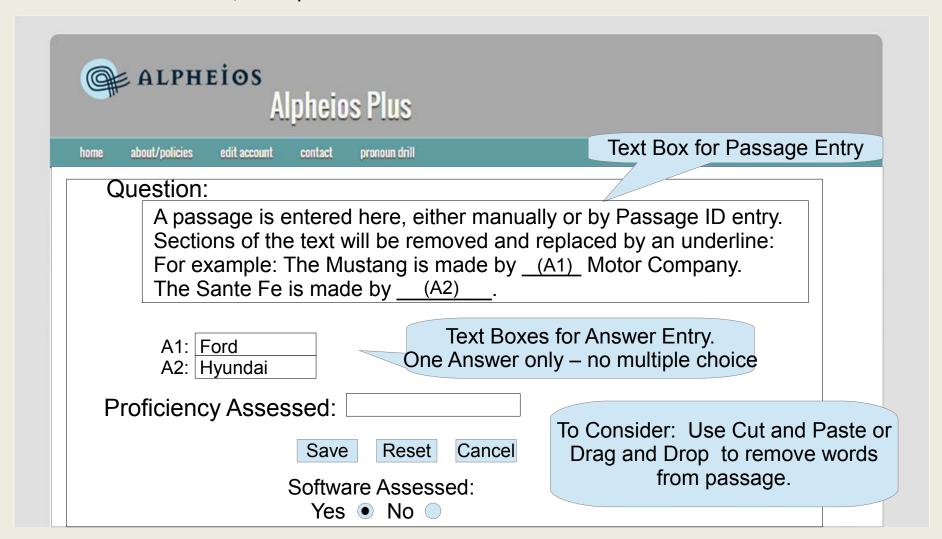


- 2 & 3. Single Select/Multi-Choice & Multi-Select/Multi-Choice
 - Created Question MUST have AT LEAST one correct answer from multiple possibilities

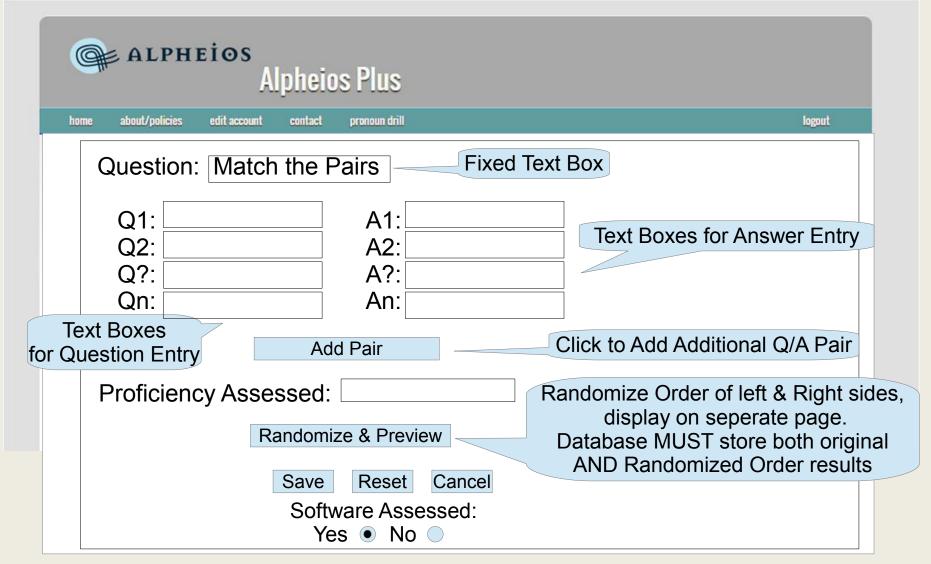


4. Fill in the Blank

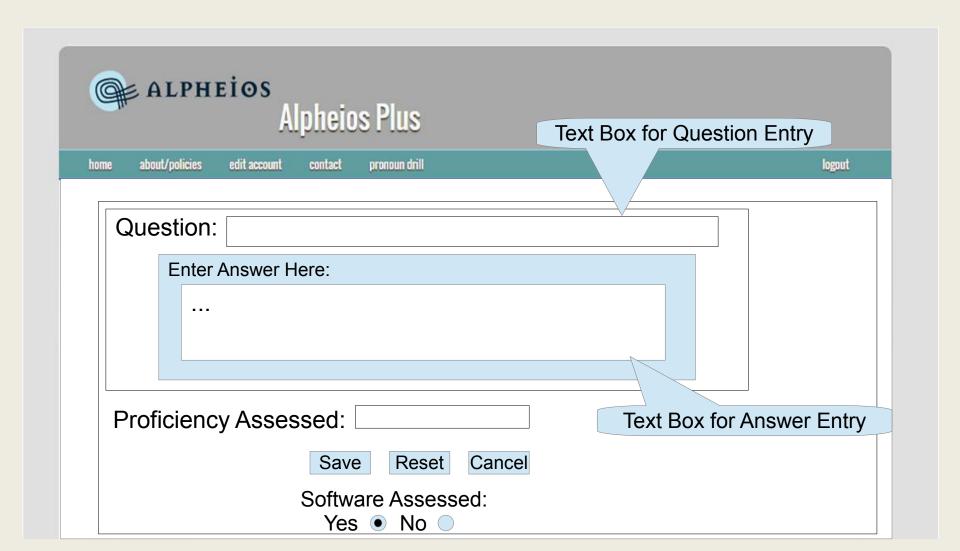
• Created Question will have Blanks within sentence that student must fill in. These must be Fact answers, not opinion answers.



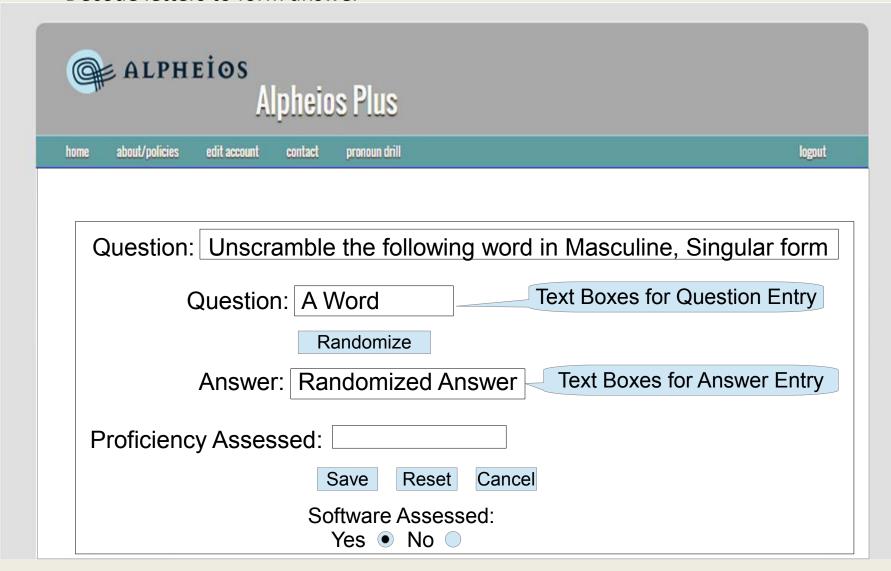
- 5. List Matching (Match the Pair)
 - Pairs MUST be made between Left and Right side terms.



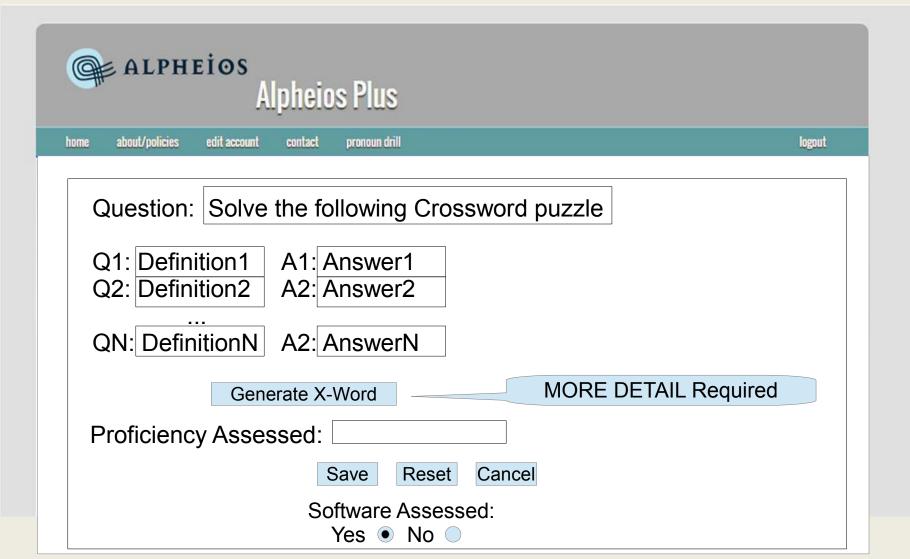
- 6. Q&A Text Area Based
 - Text Based answers to a Question



- 7. Scrambled Letters (Scrabble)
 - Decode letters to form answer



- 8. Crossword Puzzle (Up, Down, Horizontal)
 - Solve based on Questions tagged to specific coordinates.



WORK UNDER PROGRESS

Points under consideration

- Should we have a separate role for Head of Department OR Leader of Teachers?
- Should we take username, password from user while filling out 'request new account' form OR let the AlpheiosPlus create username and password while approving the account and share the same with institution contact person?

Request new Account

- This page shall allow to request to create a new account for an institution on AlpheiosPlus.
- <tobedone>

Update Existing Account

- This page shall suggest the Account update process and related requirements
- This can only be exercised by super-admin.
- <tobedone>

Delete Existing Account

- This page shall suggest the Account delete process and related requirements
- This can only be exercised by super-admin.
- <tobedone>

View Existing Account

- This page shall suggest the details of a Account that shall be shown on website.
- This can only be exercised by super-admin.
- <tobedone>

Institution Admin Landing Page

- If a user with 'Institution Admin' role logs-in successfully to AlpheiosPlus, he is expected to land on 'Institute Admin Landing Page'.
- <tobedone>

Teacher Landing Page

- If a user with 'Teacher' role logs-in successfully to AlpheiosPlus, he is expected to land on 'Teacher Landing Page'.
- <tobedone>

Teacher Assistant Landing Page

- If a user with 'Teacher Assistant' role logs-in successfully to AlpheiosPlus, he is expected to land on 'Teacher Assistant Landing Page'.
- <tobedone>