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## ISEB – An Introduction

### 1. Introduction

Within the context of the new E-Learning Strategy the faculty for learning technologies of the ZIM at the University of Duisburg-Essen developed the E-Learning Tool **ISEB** (Interactive Slide E-Book).

ISEB was developed with the intention to give students the opportunity to access learning materials interactively. This is mostly achieved by the display of slides. Parts of these slides are accessible via mouse click. When clicking onto a certain area of the slide, the program opens a window with contents and information. When switching to the next slide, the content can either be changed, pointing towards changes in the slide or disappear entirely - in case there are no further materials. This enables interactive paths, which students can use to navigate through the book and materials.

In this context ISEB should not be seen as a replacement tool for your current teaching offers but rather one that enhances them.

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### 2. Authoring functions

#### 2.1 Authoring portal

The authoring portal is the user surface, which allows teachers to create and manage contents.



**Figure 1: Authoring portal at the bottom of the page**

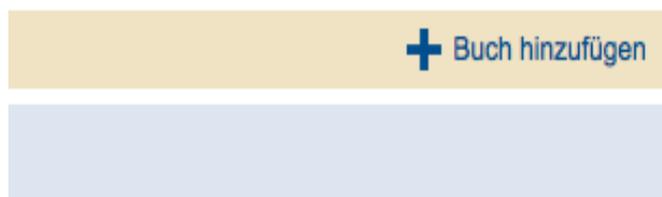
To get to the authoring portal, open the [start page of ISEB](#) and scroll to the bottom of the page, where you can find the log-in section (see Figure 1). Here you can log in with your University Identification (Unikennung) and your password. When the authentication is successful, you are redirected to the authoring portal.

#### 2.2 Books

Books represent the essential concept of ISEB. In the context of ISEB “Bücher” are assigned to a certain category and can be accessed by students. As soon as you are logged in successfully through the authoring portal you will be able to *create* and *edit* books.

##### 2.2.1 Creating books

When successfully logged in the authoring portal displays an overview of your current books:



**Fig. 2: Link „Buch hinzufügen“**

The link “Buch hinzufügen” is positioned in the upper right corner, underneath the navigation bar (see Fig. 2). To create a book, simply click on the link.

You will now see an input mask which helps you to do several adjustments to the book. First, choose a book title, which will be displayed later serve as a headline of the publication. Once books have been created they will be alphabetically sorted in the respective categories. In a case where the correct category has not been assigned to the book, you can adjust this manually afterwards. Please note that the selection of the book title only allows for a couple of special characters. In addition you can add a short description of the book.

Also you are able to assign a password to the book, which allows only selected users with the password to have access to the book. After that, click the “Speichern” button.

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### 2.2.2 Editing Books

To now be able to edit one of the books you have created, click “Bücher” and search for the book that you want to edit.



Fig. 3: View of an existing book

Afterwards, within the description of the book click “Bearbeiten” (see Figure 3) you will now see the exact same input mask that comes up when you create a book. This also allows you to include or delete a password in retrospect.

**Please note** that changing the book title also changes the link to the book. Students who saved the book via bookmark and do not access the book via the ISEB starting page, receive a failure notification in case the book title has been altered. Similarly affected will be links in your own lecture scripts and materials that lead to the book before the name change.

### 2.2.3 Deleting Books

To delete an existing book, click the link “Bücher” and select the book you want to delete. Underneath the description of the book click the link “Löschen” (see Figure 3) After verifying your identity in the security check, the action will be performed and the book therefore be deleted.

**Please note** that when you delete a book entirely, all slides, contents and updated media associated with the book will be irrevocably deleted. This action also prevents the ZIM from being able to perform any form of recovery of this data!

### 2.2.4 Visibility/Publishing Books

You can hide books that still have to be created or are only intended to temporarily be unavailable. To hide books click “Verstecken” underneath the description of the book (see Figure 3). Books that are already hidden, can be made visible by clicking “Veröffentlichen”. Hidden books are not displayed on the starting page and can also not be accessed via direct link as long as they are not published again.

**Please note** that when a book is hidden you also won't be able to view the book yourself. If you still want to view the book, but want to protect it from the access of others, you can implement a password (see 2.2.2 “Editing Books”)

## 2.3 Slides

Books in ISEB consist of slides. Slides consist of image files which may contain desired depictions.

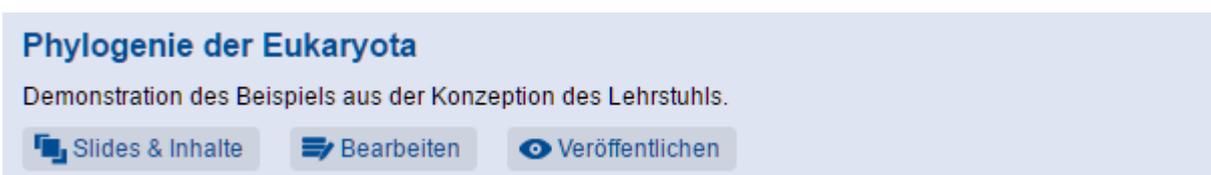


Fig. 4: View “Slides Bearbeiten”

Slides represent the foundation for the later marked clickable areas and their respective contents. Go to the page “Bücher” in the authoring portal. Now select a book which slides you want to alter and click “Slides & Inhalte” (see Figure 4)

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### 2.3.1 Add Slides

As soon as you have clicked the link „Slides & Inhalte“ in a book, you will see several options.



Kompaktansicht + Slides hinzufügen

*Fig. 5: View “Slides hinzufügen”*

To add new slides click „Slide hinzufügen“ in the upper right (see Figure 5). Afterwards you will see a page with a setup to upload a file. Here can either drag the slides from your computer into the assigned area or select “Durchsuchen” and upload the slide in the classic way by manually selecting it from your file explorer. After uploading your files click the link “Zurück zu den Slides” in the upper right corner. This brings you back to the landing page of the section “Slides verwalten”.

### 2.3.2 Sort Slides

You can manage the order of the slides manually.



Inhalt verwalten   Klickfläche löschen   Klickfläche erstellen   Klickflächen kopieren  
Lizenz bearbeiten   Slide löschen   Sortieren

*Fig. 6: View of the editing functions of slides*

To do so, click „Sortieren“ in the editing function of your chosen slide. (see Figure 6), hold the mouse button and drag the slide manually onto the preferred position in the list.

**Tip:** If you happen to end up with a high number of slides, it might be useful to activate the compact view. To enable this view simply click on “Kompaktansicht” on the upper right of the screen. (Figure 5)

### 2.3.3 Deleting Slides

Please select which slide should be deleted. Then click “Slide löschen”. After the security verification, which you confirm by clicking “OK”, the slide will be deleted.

**Warning:** This is equivalent with an irrevocable deletion of a slide.

### 2.3.4 Editing license information

In case you want to use materials that fall under the protection of copyright of a specific third party and you want to add license information to a slide, you can do this following the link “Lizenzinformationen” which you will find in the editing functions of the respective slide (see Figure 6). Once you have finished your entry, simply click “Speichern”.

## 2.4 Clickable Areas

The main function of ISEB is the function that lets you assign clickable areas to slides. These areas and the content of the window have to be compiled by you personally.

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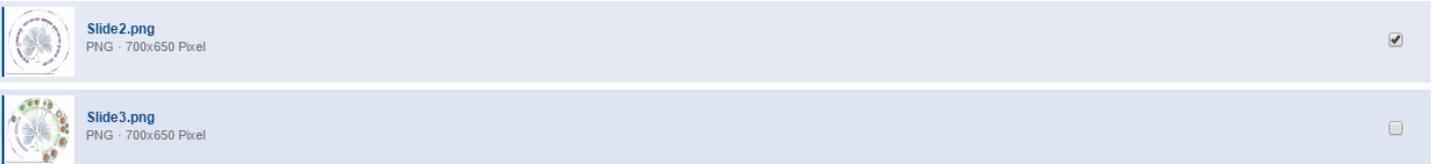
### 2.4.1 Create Clickable Areas

In order to create clickable areas on a slide, please go to the “Überblick”. Now select one slide that you want to assign buttons to and click “Klickfläche hinzufügen” (see Figure 6). The site will now display an overview.

**Fläche erstellen...**

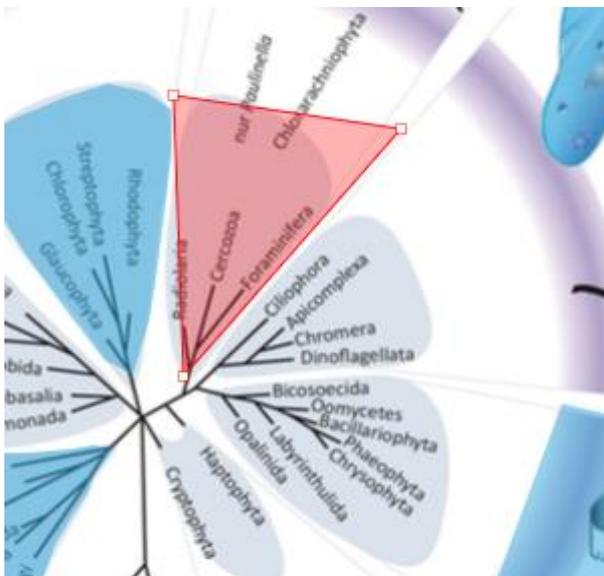
Wählen Sie wenn nötig aus, in welchen weiteren Slides die Klickfläche vorhanden sein soll. Beachten Sie bitte, dass nur solche Slides angezeigt werden, die dieselbe Abmessung haben wie die Originalslide.

POSITION DER SLIDE, DIE SIE GERADE BEARBEITEN.



**Fig. 7: View „Klickfläche erstellen“**

At first, tick the respective checkbox and then click “Klickfläche erstellen” (see Fig. 7) in the upper left corner. Now you will see the editable slide that you can assign the clickable area to. To do so, simply hover over the selected field with your mouse cursor and click it one time.



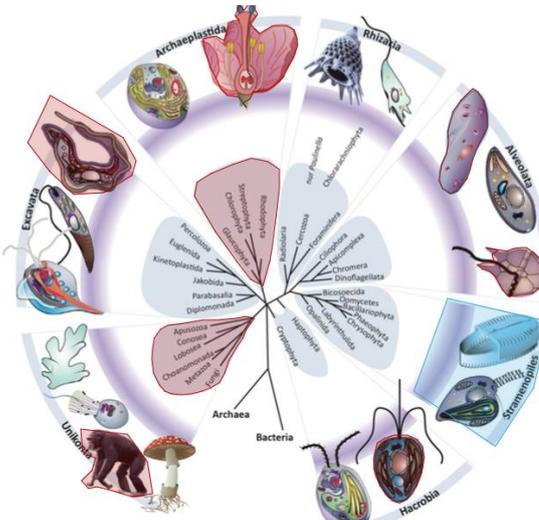
**Fig. 8: Create Clickable Areas**

In order for you to now make an area clickable, click onto different spots in the selected area several times. (see Fig. 8) Now you can adjust the scale of the selected areas (now shown in red color) manually in order to create an area. In case you want to cancel the process and create a new area onto that same slide in the same spot, simply click the “Löschen” button in the upper right corner. If you want to save the clickable area you have just created, click “Fertig” and then “Speichern”. For this clickable area you can now move on and create contents which will be displayed to the students once they click onto the area you have assigned. Further information on how to “Inhalte erstellen” for a clickable area can be found in chapter 2.5.1.

### 2.4.2 Copy Clickable Areas

Go to the slide you want to copy and click the link „Klickfläche kopieren” (see Fig. 6).

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**Fig. 9: View Clickable Areas**

Now the program shows you an overview of the clickable areas (in red color) on the slide (see Fig. 9). Now click the area you want to copy which will now change to a blue color (see Fig. 9). Underneath the image you will now find the other slides, which now can be used to copy the selected area onto. To copy the selected area simply select the slide you want to copy onto and click the “Kopieren” button.

### 2.4.3 Delete Buttons

Go to the slide which contains the clickable area you want to delete and click “Klickfläche löschen” (see Fig. 6). You will now see the slide with all clickable areas it contains. Now select the area that you want to delete and click it one time. Please verify the following security check with “OK”.

**Warning: This is equivalent to an irrevocable deletion of a clickable area.**

## 2.5 Managing Contents

### 2.5.1 Create Contents

You can now add your own text contents to the clickable areas you have created. Those will appear once a student clicks onto the area. To do so, go to the overview page of your books and select the book which you want to edit. Then click “Slides & Inhalte”. Now click the slide you want to edit and click the link “Inhalte verwalten” (see Fig. 6)

[+ Inhalt hinzufügen](#) [Zurück zu den Slides](#)

**Fig. 10: Creating Contents**

Vorschlag screenshot: “Add content”, “Back to slides”

In the upper right corner click the link “Inhalt hinzufügen” (see Fig. 10). The program will display an input mask. Beforehand, you will have to select a clickable area that you want to assign the content to. To do so click “Klickfläche auswählen” to the

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upper left. Afterwards the slide will be displayed, including all clickable areas, which you will now be able to select. Select one or several clickable areas and highlight them by clicking them once. Then close the window by clicking the button “Schließen” on the upper right.

You can now move on to assigning a headline and the text which should appear when clicking onto the selected area. Finish the process by clicking the button “Erstellen” on the bottom of the page.

### 2.5.2 Delete Contents

Go to the overview page of your books and click the link “Slides and Inhalte” of the book you want to edit. Now select the slide, which contains the content that you want to delete and click the link “Inhalt verwalten” (see Fig. 6). You will now see an overview of all contents so far. The selected content you can now delete by clicking the link “Löschen”. Before the content will be deleted, the program asks for another verification with “OK”. Only then the deletion will be completed.

**Warning: This entails an irrevocable deletion of the contents.**

### 2.5.3 Edit Contents

Please select a book on the starting page (overview of your books) and click the link “Slides & Inhalte”. Now you will see an overview of your slides. Please select the slide, which contents you want to edit and click the link “Inhalte verwalten” (see Figure 6). Now you will see an overview of your contents. Select the editable contents and click the link “Bearbeiten”. When you have finished editing the contents, click the “Speichern” Button.

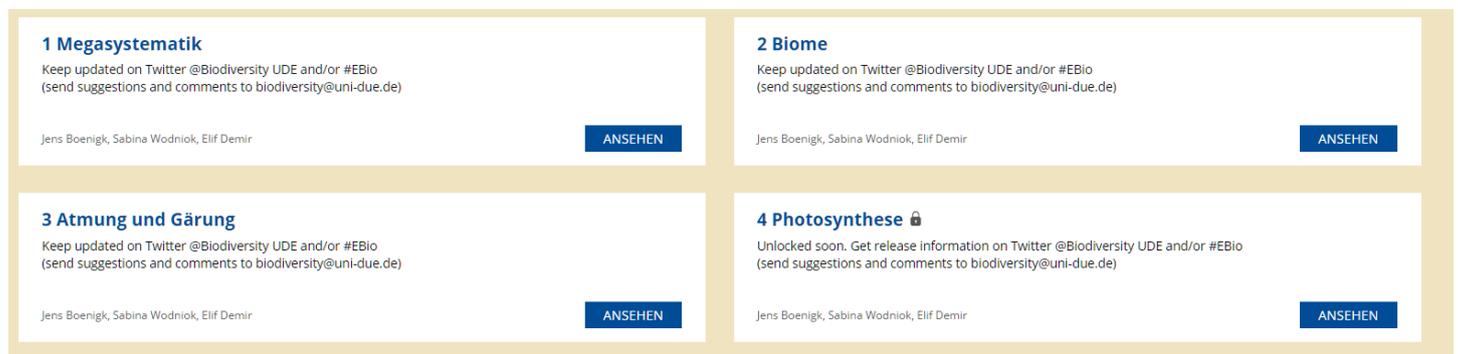
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### 3. Students' view

Students have the opportunity to use the books that you have created in order to receive an interactive input. Students receive a reading permission but not the permission to alter and add contents.

#### 3.1 Book Topics

Books you have created appear in an overview. Here the headlines of the books will be displayed to the students as main titles (see Fig. 11).



*Fig. 11: View of Books (students' perspective)*

Students can view the books by clicking "Ansehen", which will display the first slide that you filled with clickable areas and contents first.

#### 3.2 Clickable Areas

Students are able to access certain clickable areas that you have assigned to certain areas of the slides of your choice. The clickable areas are indicated by the mouse cursor that changes into the shape of a hand when you hover over an area declared as clickable.

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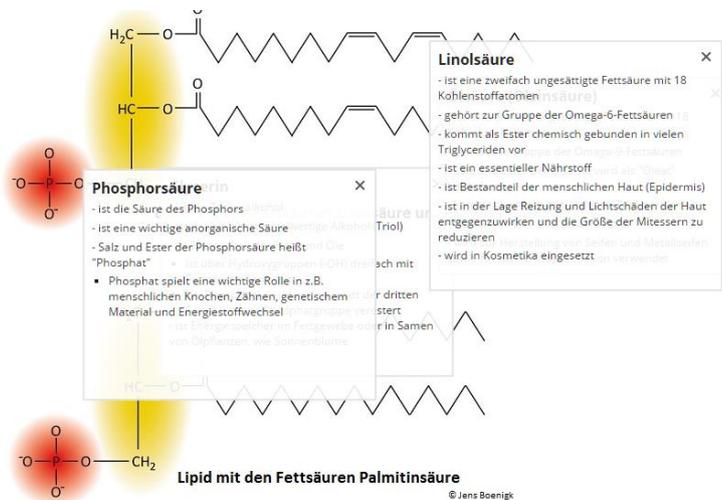


Fig. 12: View of Buttons and Contents of a Slide

After one or several clicks onto the clickable areas the program will display one or several smaller windows which contain the content that you have assigned to the areas (see Fig. 12). Every window can be closed by the students by clicking the "X". In addition the content windows can be moved across the screen in case they overlap (see Fig. 12).

### 3.3 Navigation Bar

Once the students entered the view of the first slide, they can navigate between the slides as follows:

## 5 Grundbausteine

JENS BOENIGK, SABINA WODNIOK, ELIF DEMIR

Keep updated on Twitter @Biodiversity UDE and/or #EBio (send suggestions and comments to biodiversity@uni-due.de)

1. Lipide
2. Aminosäuren
3. ATP und NADH
4. Bausteine der Nukleinsäuren
5. Monosaccharide

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**Wie gefällt Ihnen ISEB?**  
WIR FREUEN UNS ÜBER IHR FEEDBACK!

Fig. 13: Navigation between various slides

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While viewing the first slide the right side of the screen will display a navigation with an overview of all slides of the selected book (see Fig. 13). This navigation allows students to switch to the slide they want to access next.

Furthermore, the lower left and lower right sections of the screen provide arrow buttons that allow students to browse to the previous or next slide. The slides are presented in the order that you have assigned them to previously in the editing phase (see chapter 2.3.2)

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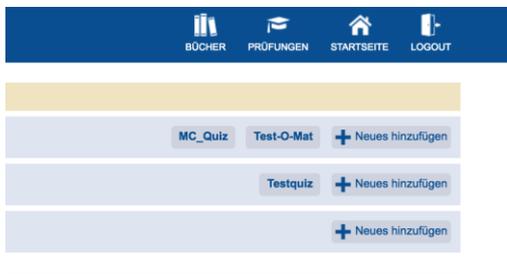
## 4. Examination environment

After the students internalized the input from viewing the various slides, you have the chance to install a quiz to further foster the consolidation of the input. You can design the quiz in such a way that all aspects from the slide at hand are covered by questions and answers.

### 4.1 Quiz

#### 4.1.1 Creating quizzes

To create a quiz click the menu point “Prüfungen” and then “Neues hinzufügen” (see Figure 14). The program now displays an input mask (see Fig. 14) which allows you to edit the preferences of the quiz. Here you first have to assign a name for the quiz (“Quiz Titel”), select between deactivated and activated and then choose the domain. For further information on domains see chapter 4.1.3. In case a quiz is deactivated it cannot be accessed by students.



In case students do several attempts to answer questions in your quiz, tick the check box under „Mehrere Versuche“. By ticking the check box “Überspringen erlauben” you enable students to skip over questions that they are not able to answer. Under “Feedback” in the menu you can influence the time when students should receive feedback for their questions. Therefore it is possible for students to e.g. receive a feedback for their question immediately after the question or only at the end of the entire quiz.

Fig. 14: Create Quiz

Once you have performed all adjustments, click “Erstellen”.

#### 4.1.2 Editing a Quiz

Once you have completed creating a quiz including all the adjustments and want to alter them at a later point, for example to change the status of the quiz, simply click “Prüfungen” (see Fig. 13). You will now see the respective quiz for particular slides next to the button “Neues hinzufügen” (see Fig. 13). If you now click onto the quiz you want to edit the program displays the same input mask as when creating a quiz (see Fig. 14).

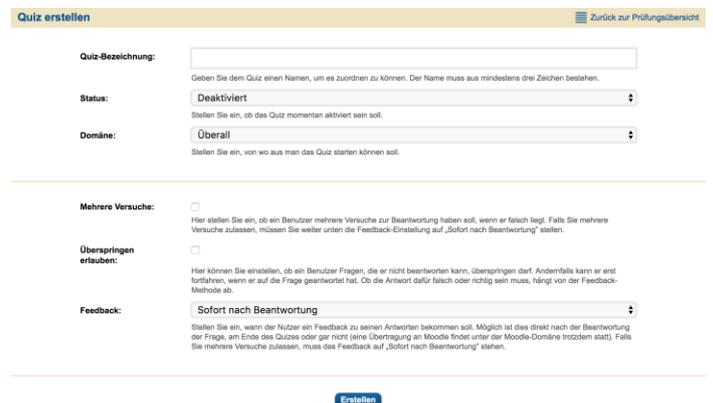


Fig. 14: Quiz Adjustments

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### 4.1.3 Domain

The domain determines from where the quiz is being started. When “Überall” is selected, the quiz can be accessed via the ISEB-page or from a moodle course. Because of the fact that any external person can technically access the book (if there is no password selected), everybody can run a quiz at all times. If the domain “Nur LTI-Consumer” is selected, the quiz can only be accessed from a Moodle course, meaning only by students which are logged in into moodle and additionally into a respective moodle course and not by external persons. Points achieved in ISEB can also be transferred to moodle via an interface.

### 4.2 Creating and Editing quiz questions

To now fill your quiz with questions and respective answers you will have to select the menu section “Prüfungen” and then select the quiz, which you want to add questions to. Then click onto “Fragen verwalten”. You will now see an overview of the questions you have created so far, next to the respective points that students receive when correctly answering the question. By clicking the menu point “Frage erstellen” you will be redirected to an input mask (see Fig. 16). In the editor

Frage erstellen ? Zurück zur Fragenübersicht || Zurück zur Buchansicht || Zurück zur Kategorieübersicht

**Frage:**

Tragen Sie hier bitte die Frage für die Studierenden ein. HTML und andere Formatierungen sind nicht möglich. Verwenden Sie zudem bitte nicht mehr als 400 Zeichen.

**Punkte:**

Tragen Sie hier bitte eine Punktzahl ein, die bei richtiger Beantwortung der Frage vergeben wird.

**Hinweis:**

Falls das Quiz entsprechend konfiguriert ist, wird dieser Hinweis dem Studierenden nach einer falschen Antwort auf die Frage angezeigt. Das Feld ist optional und darf maximal 400 Zeichen enthalten.

---

Bitte wählen Sie einen der folgenden Frage-Typen aus:

**SINGLE CHOICE**  
Eine von vielen Optionen wählen, nur eine ist richtig.

**MULTIPLE CHOICE**  
Mehrere von vielen Optionen wählen

**KLIICKFLÄCHE**  
Richtige Klickflächen an der Seite anklicken

**TEXTFELD**  
Eine richtige Antwort wird in ein Textfeld eingetragen

“Frage” type in the question that you want your students to answer. Also, you will have to assign an amount of points for correctly answering the question. In addition you are able to implement a hint to help students answer the question. Finally, you have to choose one of the different question types: Single-, Multiple-Choice, Klickfläche or Textbox. Here you can edit questions, answering options and the assignment of the respective amounts of points.

**Fig. 16: View Create Questions**

#### 4.2.1 Single Choice

Erstellen Sie bitte für jede neue Antwortmöglichkeit ein neues Textfeld, indem sie auf „Option hinzufügen“ klicken. Markieren Sie danach die richtige Antwort, indem sie daneben auf den Häkchen klicken. Es sind maximal 6 Antwortmöglichkeiten möglich.

1. Antwort:  ✓

2. Antwort:  ✓

3. Antwort:  ✓

[Option hinzufügen...](#)

[Erstellen](#)

**Fig. 17: Single Choice**

The question type “Single Choice” requires a single correct answer from a given amount of answering options to a question.

When you choose the “Single Choice” option, you will be able to choose an amount of answering options (see Fig. 17). Once you have typed in all answering options, mark the correct answer by clicking the check-sign next to the

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correct answer. Then click the button “Erstellen”.

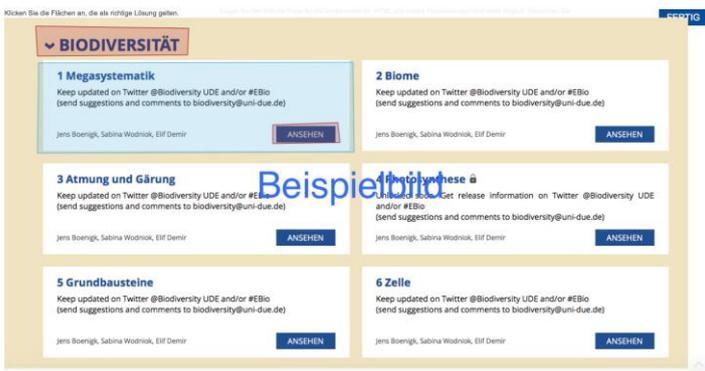
## 4.2.2 Multiple-Choice

As the name suggests multiple-choice questions offer multiple answer choices to students. The procedure of creating questions from previous chapters can be applied in this scenario in the exact same way. The correct answers can again be marked with the checkboxes of the respective answer. In order to also credit answers which are partially correct, you can assign individual amounts of points for specific answers. The program enables you to differentiate between the quality of answers with labels such as “Gute Antworten” and “Sehr gute Antworten”. Once you have marked all correct answers click “Erstellen”.

## 4.2.3 Clickable Area

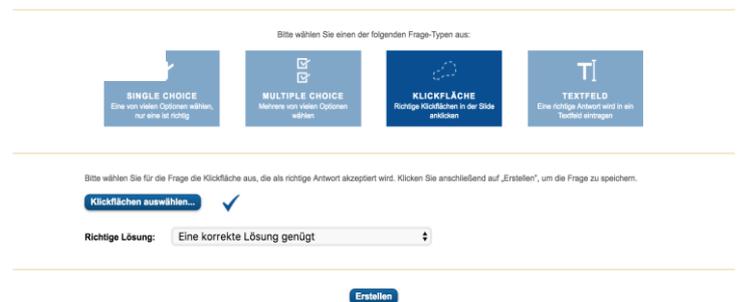
In the case of this question type you are able to create the questions in combination with a slide and a clickable area. As soon as you have completed the usual adjustments like assigning the amount of points and compiling the question, click the button “Klickfläche auswählen”. The program will now show an image, in which the clickable areas are marked as red

(see Fig. 18). You are now able to click several areas, which should be clicked by the student to answer the question. Once you’re done with this step, click “Fertig” on the upper right of the screen. You will now be guided back to the previous overview.



**Fig. 18: Question Type Clickable Area**

Finally you are now able to adjust whether it suffices for the student to click one correct answer or if the entire set of points is necessary to find all correct answers (in this case clickable areas). Once you’re done with these adjustments, simply click the button “Fertig”.



**Fig. 19: Question Type Clickable Area**

## 4.2.4 Textboxes

The textbox represents the fourth and last question type. In this section you create a question that students have to answer in a free text form. When you are finished compiling the points and annotations for the question, you type in the answer text. In this case you can create several options for solution texts. Note that all options are connected in an “Oder”-relation. This means, that just one of the answers already suffices for the correct answer to the question. You now also have the option to influence the way in which the student is asked the question. The texts can e.g. be compared by the parameter

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“Entspricht exakt...” (see Fig. 20). In this case the answer text has to exactly match the text of the solution given by you, to receive the full amount of points. In case you only want to assess the beginning or end of the students’ answer and give

Bitte wählen Sie einen der folgenden Frage-Typen aus:

**SINGLE CHOICE**  
Eine von vielen Optionen wählen.  
Nur eine ist richtig.

**MULTIPLE CHOICE**  
Mehrere von vielen Optionen wählen.

**KLICKFLÄCHE**  
Richtige Klickflächen in der Slide anzeigen.

**TEXTFELD**  
Eine richtige Antwort wird in ein Textfeld eingetragen.

Fügen Sie eine oder mehrere (maximal 6) mögliche Lösungen hinzu. Die Lösungen sind dabei mit einem ODER verknüpft. Entweder die erste Lösung, oder die zweite, oder die dritte usw., es werden also alle Lösungsmöglichkeiten als richtig angesehen. Sie können dieses Werkzeug nutzen, um zum Beispiel verschiedene Schreibweisen oder synonyme Begriffe zu in der Lösung zu realisieren.

Entspricht exakt...  
 Beginnt mit...  
 Endet mit...  
 Enthält...

Lösungstext:

[Lösung hinzufügen...](#)

[Erstellen](#)

**Fig. 20: Question Type Free Form**

If several attempts are allowed for a specific question, the feedback options have to be set to “Sofort nach Beantwortung”.

points according to that indicator, select “Beginnt mit...” or “Endet mit...” in the drop-down section. Finally you can - by selecting the option “Enthält...” – only match certain keywords or phrases to give points for answering the question.

### 4.3 Feedback

In this section you can manage options for *when* students receive feedbacks for their answers. This enables you to decide whether the feedback should be visible immediately after answering an individual question or only after the completion of the entire quiz.

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### 5. Other/Miscellaneous

#### 5.1 Consulting & contact

Given the fact that ISEB is a tool developed by the ZIM, we constantly work on refining and enhancing the tools and their functions to improve the practice quality of ISEB. We are happy to receive your suggestions, wishes and impulses for improvements via email [iseb@uni-due.de](mailto:iseb@uni-due.de). We also offer individual appointments for consulting specifically geared towards the use of ISEB.

#### 5.2 Support

In case you notice any mistakes or system failures while using and working with ISEB and its respective functions, please feel free to contact us directly via email: [iseb@uni-due.de](mailto:iseb@uni-due.de). We will then get in contact with you ASAP and try to solve any occurring issues.