Component Description

Documentation for Surveywzrd Project

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Faculty Economics

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Contents

1 Frontend

1.1 SurveyEmbedded Page

At the SurveyEmbedded page, the survey with the question, a short description, the company name and the different answer options are shown. The participant can take part at the survey and select one or more answers (depending on question type) which will be send to the AnswerOption component in the backend. After the participant submitted his selection, the simplified analysis of all votes up to then will be shown. The participant can switch at the analysis between a weekly and monthly view of voting's. Furthermore the SurveyEmbedded page avoids multiple voting by using a local storage. So when the participant sends his vote a value is set in the local storage and the participant is not allowed to vote a second time.

1.2 Landing Page

The Landing Page is the first page, which will be shown when our application is getting started from the admin. Here our Logo, a short text and buttons for registration/ log in are shown. By pressing one of the buttons the admin is getting directed to the Log in / Registration Pop-up.

1.3 Log in / Registration Pop-up

Here, the admin can Log in or can register himself by entering his email and password. The creation of a new Admin and the check of the correct password for an existing admin will be done by the AuthToken and Admin component in the backend. Additionally, the admin can select a remember me check box, so that he do not have to enter his log in data every time he open the application. Furthermore, he have to accept the data security policy before he can register himself to the application.

1.4 Overview Page

After a successful Log in / Registration the admin is getting directed to the Overview Page where he gets an Overview of his current surveys and can go to the different pages and functionalities (Create Survey, Analytics, How To, Logout). The admin also have the possibility by pressing preview at his overview survey to get a preview of the embedded survey IFrame on a website. Moreover, he can delete certain surveys by pressing the delete button. Furthermore, by pressing the share icon at the top right of every survey, the admin will get the IFrame link for embedding his survey at any website. If the admin is marked as an owner he will see all surveys which were created with the application and can access their detailed admin analysis or delete them. The necessary data to get the overview of existing surveys will be provided by the Analysis component in the backend.

1.5 CreateSurvey Page

Here, the admin can create a survey. He can set a name of the survey, a question, a short description, the different answers (max. 8), the expiry date, and a company name. These values will be transmitted to the Survey component in the backend.

1.6 Analytics Page

To get to the Analytics page the admin have to press the evaluate button on the survey at the Overview page. Here, the admin can see the dynamic analysis of his survey. The admin can switch between a daily, weekly, and monthly view of votes. Furthermore, he can see how many people participated in his survey, how the

votes differentiate by time and the origin country of the participants. The necessary data will be provided by the SurveyFeedback and Analysis component in the backend.

1.7 How To Page

This page will show a short guide how to use the tool.

1.8 Logout

By pressing the Logout button the admin will be logged out. The logout will be done by the AuthToken and Administrator component in the backend.

2 Backend

2.1 Participant

In this component the participants are handled. That means, that here the personal data which is needed from the participant is collected and will be submitted to participant table in the database. This component will check if there is already a Cookie_ID set in the Participants table for the participant and if not it will set it and collect all necessary data from the participant (platform, platform_version, device_type, browser, browser_type, browser_language, location_country, location_city).

2.2 AnswerOption

Here, the Answer from the participant, which will be received from the SurveyEmbedded page, is recognized and will be submitted to the AnswerOption table where it will be stored.

2.3 SurveyFeedback

The SurveyFeedback is responsible for delivering the data which are need for the analyses. Furthermore, a timestamp for the single votes are set, so that you have the opportunity to see how the voting behavior have change by time.

2.4 Analysis

The Analysis is responsible for the different analyses of the survey, which will be shown at the SurveyEmbedded page, Overview page, and the Analytics page. Here, the data from the database and SurveyFeedback component are retrieved and analyzed. In addition, it handles the different analyses for the different question types (Single- and multiple choice).

2.5 Survey

The Survey component is responsible for the surveys. That mean that it is setting the name, description, question, question type, expiry_date and the company name which will be received from the Survey create page. At the end the data will be transmitted to the survey table where the data is getting stored.

2.6 AuthToken

The AuthToken component is responsible for providing a key that is used after an admins login for him to authenticate in the further workflow of the application. This is necessary to not save and send the username/password with every request. Instead, the AuthToken is after a successful login saved as a cookie

in the admins browser and therefore being sent with every request to the server to authenticate him. This allows access to the protected API parts.

2.7 Administration

The Administration component is setting the necessary data from the admin (email and password), during the register process at the Log in / Registration Pop-up. It furthermore encrypts, stores and validates the password during the login/registration process. This is also the place where it is assured, that no plain-text password storing in the database is happening. In addition, this component is also checking if the admin account is stored as an Owner account and decide if the admin gets access to the owner overview page and the combined owner tools. Moreover, the Administrator component is responsible for the log out of an admin, together with the AuthToken component, which handles the delete of the responsible AuthKey on logout.

3 Database

3.1 Admin Table

Here, the data to the admins are stored and this table is used for checking if the password matches to the password of the admin while he want to log in.

3.2 Survey Table

Here, are the data to the surveys, which is coming from the Survey component, are stored.

3.3 Survey Feedback Table

Here, analysis necessary data from the AnswerOption- ,Participants- and Survey table are combined and stored. This table is used for the analyses of the surveys and will send the data to the SurveyFeedback component where they will be analyzed.

3.4 Answer Options Table

Here, the Answers, which are coming from the AnswerOptions component, are stored.

3.5 Participants Table

Here, the participant's personal data, which is coming from the Participants component, like platform, platform_version, device_type, browser, browser_type, browser_language, location_country, location_city is stored.