**Università di Pavia**

**Computer Engineering**

***Web and Multimedia Technologies* – Project Report**

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| **Project title** (website subject) |
| VOTES4EUROVISION: A website to freely collect Eurovision Song Contest votes from audience. |

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| **HTML version** | | |
| 🞎 | HTML5 | 🞎 | HTML4 | 🞎 | XHTML |

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| **Client-side technologies used** |
| HTML, CSS, JavaScript (including JavaScript's plotly library) | |

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| **Server-side technologies used** |
| php, MySQL | |

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| **Website content description** |
| Describe the website in terms of:   * *Content of the single pages* and/or of the *main sections* (e.g., “The products page lists all the…”, “The ‘News’ section presents…”) * *Graphic design* (e.g., “The navigation menu is located in the left part of the page, immediately below the header, and…”)   Specify whether, for the definition of the content and/or of the graphic structure of your site, you have “drawn inspiration” from one or more existing websites (indicating their URLs).  This section can be extended to the next page, if necessary―but possibly avoid exceeding 50 lines.  The website consists of 7 total pages: Home, Login, Registration, Participants, Statistics, Voting Page and Logout.  The first element that can be found in each page is the menu, which is located on top of everything else horizontally centered and contains only links toward main pages: Home, Participants, Statistics and Voting Page, as well as the "Vote!" button.  For accessibility a hidden link has been insert before the menu to give the chance to skip the navigation bar when visiting pages using a screen reader.  In the mobile version only the logo on the left remains and all the other links are substituted by an hamburger menu icon that if clicked shows all the other options disposed vertically.  In the homepage, under the menu, there are three different sections, their order follows a linear flow. The first section contains the aim of the website, under a short explanation there is the "Vote!" button. The second one gives a brief explanation of the Eurovision Song Contest 2022 (the description is from Wikipedia), the text is on the right whilst on the left there is an image. In the third section, on the left, the textual part describes the reason why the website has been created and some information about copyrights. At the end of the page there is the footer which contains some external links that are shown as circular buttons, they aim at the Municipality of Turin, at the ESC Instagram page and at the ESC YouTube Channel, as shown by labels that appear maintaining the cursor over them.  In the mobile version images are displayed over the textual content (in the last two sections), the rest remains the same.  The second relevant page is the one that contains the list of participants singers to the show. Under the menu there is a section that contains an iframe which is a YouTube video containing slices of all songs of the competition, under that video the list of singers along with the nation they represent, and the title of the songs is presented as a sequence of anchors. Subsequent anchors are displayed in a staggered way, on click they open the page of the Eurovision related to the specific singer associated to. In the mobile version the layout remains the same, only margins are redefined in order to exploit better the screen.  The third main page is "Statistics". The page is structured in two columns, on the left there is the pie chart which represents the percentage of users from around the world that voted, the graph has been drawn using "plotly". Under that there is a summary that if clicked shows details (a table with Countries and number of users that voted from them). On the right there is a sequence of summaries containing countries' name, clicking on them details (in a table) appear and show a table with other information about total votes received. In the mobile version the page becomes single columned placing the part containing users' related information on top. The ranking is placed under that obtaining a linear flow.  The voting page has the remaining a part of description related to who can be voted by the current user and a form in which only one country can be selected. In the menu there is a difference compared to the other pages, the vote button is substituted by a Logout button.  The registration page contains a form in which email, password and country must be insert. The layout is linear. The same flow is present also in the login page but this time the country is not requested. When the button "logout" in the voting page is pressed, the user is redirected to the logout page where a successful message is shown. The registration page and login page remain the same from mobile, the only elements that change are the select and input sizes. |
| **Technical description of the website** |
| Describe the website implementation in terms of:   * *Folders (directories) and files*: list the folders that are part of the project, describing their content (e.g., “The folder img contains all the images of the website, while the folder…”). Clearly specify the name of the Home Page file * *HTML structure of pages*: indicate whether there are “structures” shared by all or many pages of the website, such as headers (e.g., <header> tag), generic containers (<div>, <section>), navigation sections (<nav>), main content (<article>), footer (<footer>), etc. * *CSS*: indicate the main selectors for which you have defined styles (shortly describing them), including possible classes or pseudo-classes (e.g., “The style for the #main selector defines an absolute positioning and…”; “The generic class .ital specifies that…”) * *JavaScript (and other possible client-side technologies used)*: illustrate the purpose of the employed JavaScript code (as well as of other possible client-side codes), shortly describing it (without necessarily providing all technical details, however); e.g., “The JavaScript function slideSh() allows to display a sequence of images which are placed in the folder …”). Indicate the URL(s) of the possible page(s) from which the JavaScript (or other technology) code has been “copied” and adapted to your own needs * *Server-side technologies*: indicate the purpose of the employed server-side code (e.g., PHP, ASP, Node.js, etc.), shortly describing it (without necessarily providing all technical details, however); e.g., “The PHP code at the beginning of the <body> of the page is used to…” * *Development tools employed*: HTML/CSS/JavaScript/etc. editors, possible image editing tools (e.g., Gimp, Photoshop, …), etc.   Specify whether, for the creation of the website, you have “drawn inspiration” from existing websites or templates (indicating their URLs), and whether you have used specific frameworks (such as Bootstrap). Also indicate anything you deem useful to make your implementation choices clear.  This section can be extended to the next page, if necessary―but possibly avoid exceeding 90 lines.  Inside the root directory there are two subdirectories:   1. "img" which contains images:    1. learning.jpeg which represents a guy browsing a book and some Math's formulas;    2. bgwave.png which is used as background for h1 and h2 titles;    3. logo2.png which is used as icon of the website, the image has been realized using Canva;    4. maneskin.jpeg which represents Maneskin after their win in Rotterdam. 2. "fonts" which contains the files associated to the two fonts used throughout all the website:    1. Anton-Regular.ttf used for the logo;    2. Raleway-Thin.ttf, Raleway-Thin.eot, Raleway-Thin.svg, Raleway-Thin.woff used for everything else.   The remaining files are not contained into subdirectories: |