AN

INTERNSHIP REPORT

on

BLOOD BANK MANAGEMNET SYSTEM

Submitted in partial fulfilment for the Award of Degree of

BACHELOR OF ENGINEERING
IN

INFORMATION TECHNOLOGY

BY

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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION 43 years

CERTIFICATE

This is to certify that the project work entitled "**BLOOD BANK MANAGEMENT SYSTEM**" submitted to **CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY,** in partial fulfilment of the requirements for the award of the completion of III semester of B.E in Information Technology, during the academic year 2022-2023,is a record of original work done by **VISHNU.K (160121737200),V.HARSHITH (160121737201),B.PRASHANTH (160121737318)** during the period of study in Department of IT, CBIT, HYDERABAD, under our supervision and guidance.

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1. ABSTRACT

The main aim of the project is the management of the database of the the online blood donation registration website is a platform that connects blood donors and users in need of blood transfusions. The website offers a user-friendly interface that allows donors to register and create a profile, where they can provide their blood type, location, and availability. Users can search for donors based on these criteria, as well as view donors from other users.

In addition to facilitating the donor-user connection, the website provides a secure messaging system that allows donors and users to communicate directly with each other. Donors can receive requests for blood donations and respond accordingly, while users can inquire about a donor's availability and suitability. The website also provides resources and information about blood donation, including eligibility criteria, the donation process, and the importance of blood donation. Overall, the online blood donation registration website aims to make the process of finding and connecting with blood donors in a much more efficient and effective manner, ultimately helping to save people’s precious

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1. INTRODUCTION

1.1. OVERVIEW

The online blood donation registration website is a platform designed to facilitate the connection between blood donors and users in need of blood transfusions. The website provides a user-friendly interface that allows donors to register and create a profile, where they can provide their blood type,

location, and availability. Users can search for donors based on these criteria, and also view donor ratings and reviews from other users. To further enhance the donor-user connection, the website provides a secure messaging system that allows donors and users to communicate directly with each other. Donors can receive requests for blood donations and respond accordingly, while users can inquire about a donor's availability and suitability. The website also offers a wealth of information about blood donation, including eligibility criteria, the donation process, and the importance of blood donation. This information is intended to educate and inform users and potential donors about the benefits and

impact of blood donation. Overall, the online blood donation registration website aims to make the process of finding and connecting with blood donors more efficient and effective, ultimately helping to save lives. By providing a centralized platform that connects donors and users, and by offering educational resources and a secure communication system, the website seeks to make a meaningful contribution to the healthcare community.

1.2. APPLICATIONS

- Emergency Blood Requests: In emergency situations, hospitals and medical centers can use the website to quickly search for and connect with available donors who match the blood type and

  location requirements of the patient. This can help save valuable time and potentially save lives.
- Regular Blood Transfusions: For patients who require regular blood transfusions, the website can provide a reliable source of blood donors who are willing to donate on a recurring basis. This can

  help ensure that the patient receives the necessary blood transfusions without any interruptions.
- Blood Donation Campaigns: The website can be used to organize and promote blood donation campaigns in different communities. The platform can help spread awareness about the importance of blood donation and encourage more people to donate blood.
- Blood Donor Recruitment: The website can be used by blood banks and other organizations to recruit new blood donors. The platform can help reach a wider audience and encourage more people to donate blood, ultimately increasing the availability of blood for patients in need.

1.3. PROBLEM STATEMENT

The percentage of people donating blood is increasing day by day due to awareness to donate blood for those Needed. The blood received have to be managed thoroughly so that there will be no negative effect to the blood receiver once they received blood.

From the observations and interview conducted that have been made during the user requirements phase, it was found out that there is no interaction medium between blood receivers and the public to announce their blood donation, hospitals. The blood donation event schedule is normally advertised to the public so that they are aware of the blood donation campaign period. At the blood house unit, the staffs and nurses only are informed about the blood donation schedule for each month on the whiteboard at the blood house. So they are using manual way in informing the schedule. The problem arises when the space provided is not enough. The medium used to inform the staff about the availability and circulation of blood bags between the hospitals and consumer is quite redundant and not secure.

To oversee these, the BBMS interface will be constructed to cater for the blood house staff to post about the blood donation events. These details can be viewed by the public so that they know and they can allocate some time to go and donate their blood. To ensure that the blood donation event schedule is informed among the blood house staff, there will be an interface for staff and independent donors to be able to fill in details and list of location of the blood donation events .

1.4. AIM OF THE PROJECT

The aim of the online blood bank management system website is to provide a centralized platform that facilitates the connection between blood donors and users in need of blood transfusions. By providing a user-friendly interface, educational resources, and a secure messaging system, the website aims to make the process of finding and connecting with blood donors more efficient, effective, and reliable. Ultimately, the website seeks to help save lives by increasing the availability of blood for patients in need, while also promoting the importance of blood donation and raising awareness about the impact of this life-saving practice.

2. SYSTEM SPECIFICATIONS

2.1. HARDWARE REQUIREMENTS

Recommended operating system:

-Windows

-Mac Os

Processor: Minimum 1 GHz; Recommended 4 GHz or more.

RAM: Minimum 512 MB; Recommended 4 GB or more

2.2. SOFTWARE REQUIREMENTS

1. **HTML**
2. **CSS**
3. **JavaScript**
4. **PHP**

HTML:

HTML (the Hypertext Markup Language) and CSS (Cascading Style Sheets) are two of the core technologies for building Web pages.
HTML provides the structure of the page, CSS the (visual and aural) layout , for a variety of devices. Along with graphics and scripting, HTML and CSS are the basis of building Web pages and Web Applications.

CSS:

CSS is the language for describing the presentation of Web pages, including colors,

layout, and fonts. It allows one to adapt the presentation to different types of devices, such as largescreens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markuplanguage. The separation of HTML from CSS makes it easier to maintain sites, share style.

JAVA SCRIPT:

JAVA SCRIPT is used to Showing and hiding menus or information, Adding hover effects, Creating image galleries in a carousel format, Zooming in or zooming out on an image Playing audio or video on a web page, Adding animations and Creating drop down and hamburger-style menus

PHP:

Server-side scripting: PHP is a widely used scripting language for server-side programming. It allows developers to create dynamic web pages by embedding scripts within HTML code.

Data processing: PHP is commonly used for processing and managing data on the server-side. It allows developers to interact with databases and manipulate data, which is then sent to the client-side for display.

Content management systems (CMS): PHP is the backend language of many popular content management systems like WordPress, Drupal, and Joomla. These platforms use PHP to manage content, user authentication, and other backend tasks.

E-commerce: PHP is widely used for building e-commerce websites. It is an ideal choice for developing online stores, as it can easily handle the complexities of shopping carts, payment gateways, and product catalogs.

3. METHODOLOGY

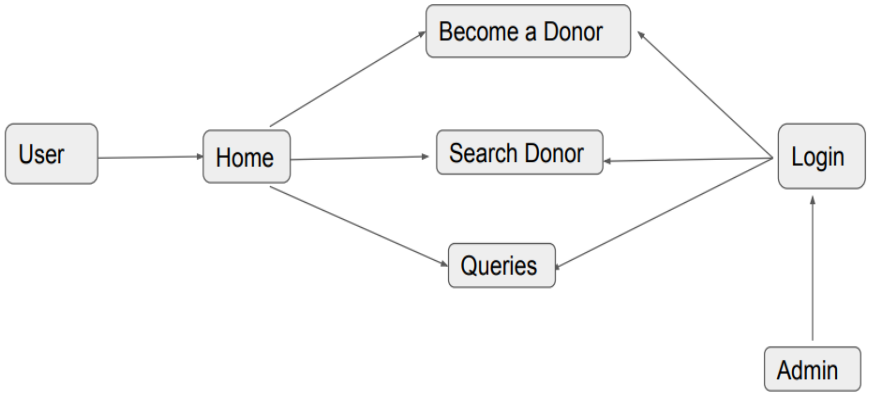
3.1. SYSTEM DESIGN

The design and development of an online blood bank management website involves several key considerations, including user experience, functionality, and security.

In terms of user experience, the website should provide a simple and intuitive interface that makes it easy for donors and users to navigate and use the platform. This may involve incorporating clear calls to action, intuitive search and filter options, and an easy-to-use messaging system that allows for seamless communication between donors and users.

Functionality is also a critical component of the website design and development process. The website should include features such as user registration, donor profiles, search and filter options, a messaging system. The website should also be scalable and flexible enough to accommodate future updates, additions, and changes as needed.

In terms of development, the website may be built using a variety of programming languages and frameworks, depending on the needs of the project. This may include front-end web development tools such as HTML, CSS, and JavaScript, as well as back-end framework PHP. The website also uses a database management system to store user and donor data.



4. RESULTS

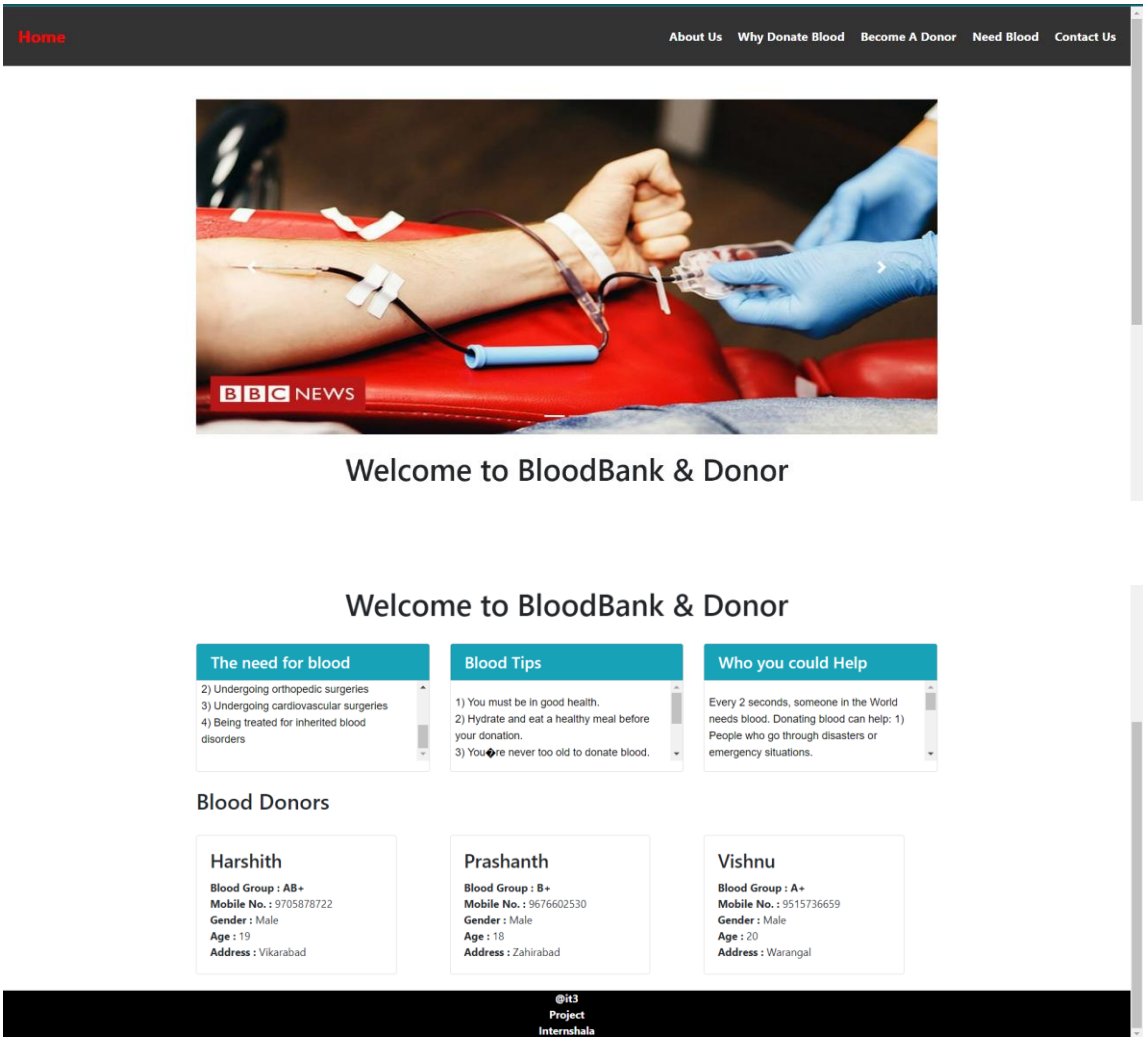


Fig 4.1 Home Page

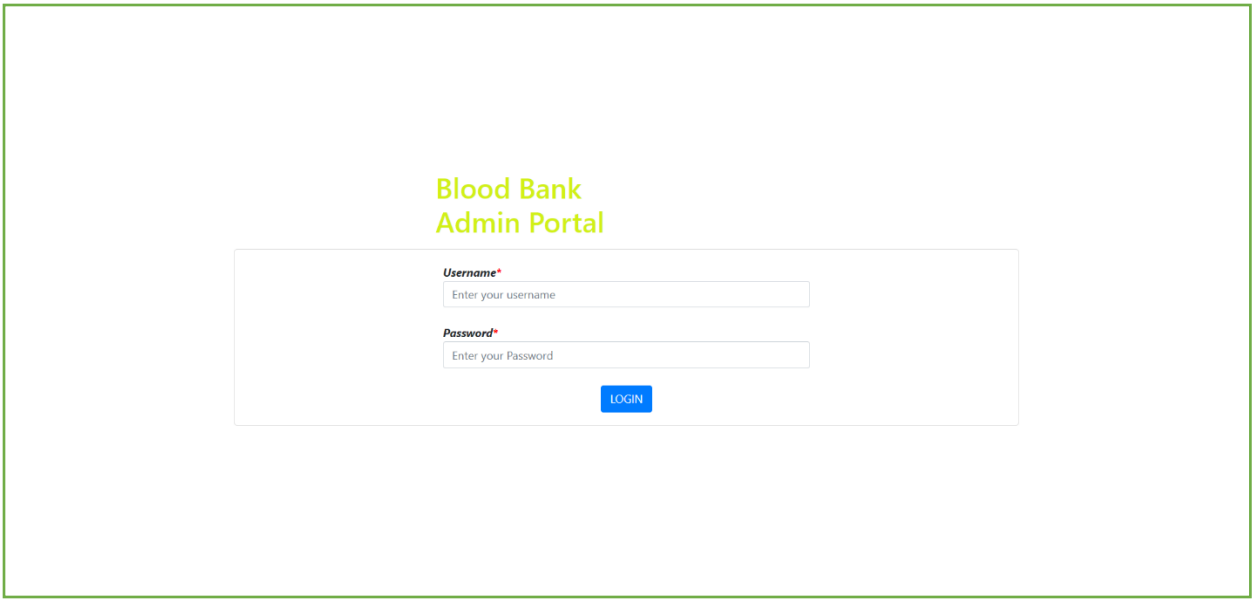


Fig 4.2 Admin Login page

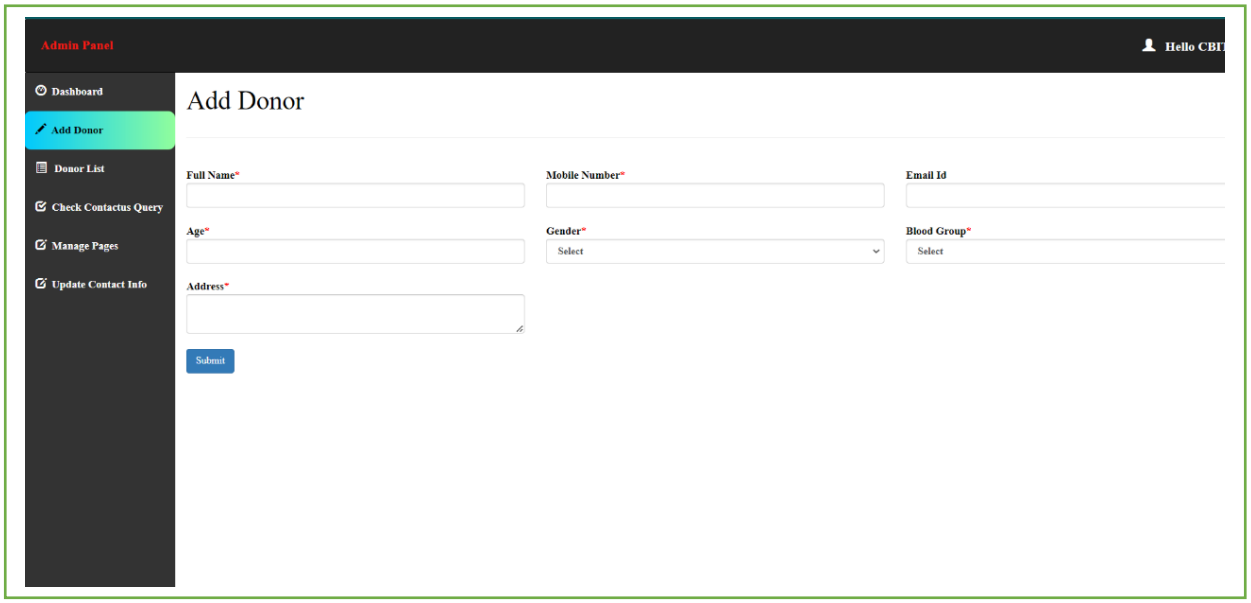


Fig 4.3 Admin Page

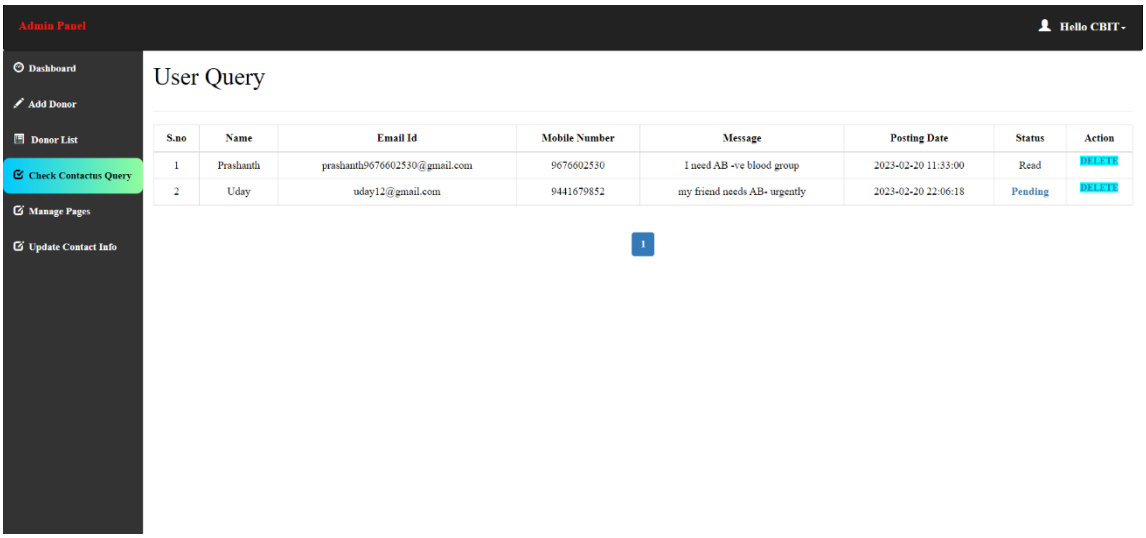


Fig 4.4 User Query

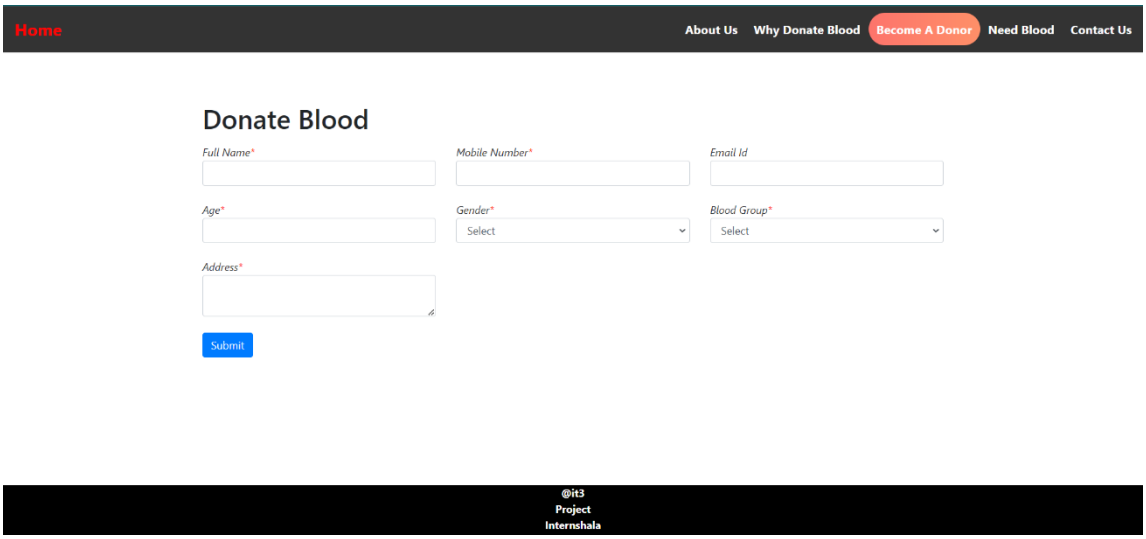


Fig 4.5 Donate blood page

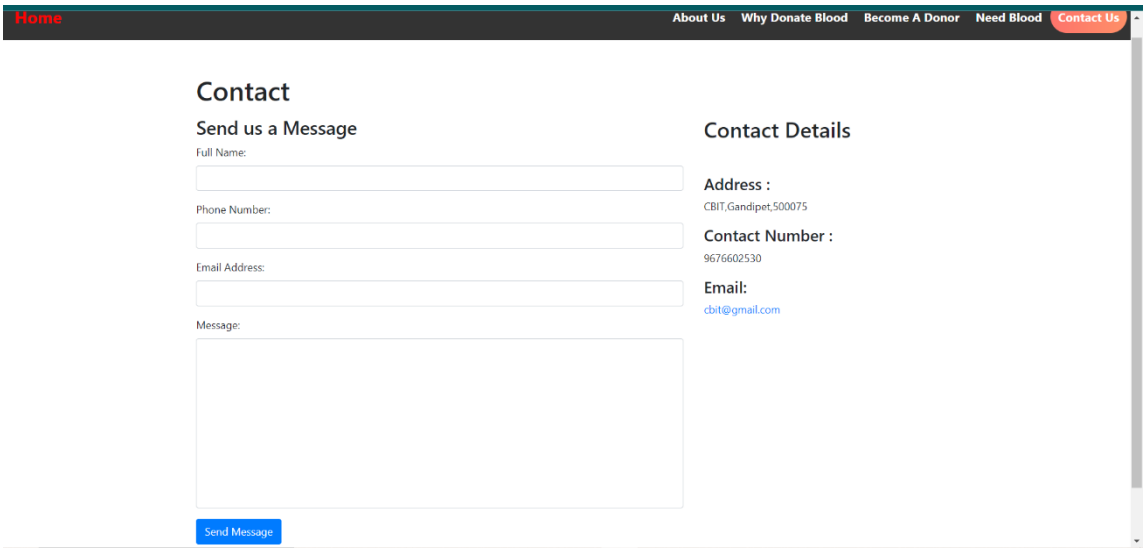


Fig 4.6 Contact us Page

5. CONCLUSION AND FUTUTRE SCOPE

5.1. CONCLUSION:

In conclusion, the online blood donation registration website is a valuable tool for connecting blood donors with users in need of blood transfusions. By providing a friendly interface, educational resources, and a secure messaging system, the website aims to make the process of finding and connecting with blood donors more efficient, effective, and reliable. The website has several potential applications, including emergency blood requests, regular blood transfusions, blood donation campaigns, blood donor recruitment, and more. The website's design and development require careful consideration of user experience, functionality, and security, with various tools and frameworks utilized to create a scalable and effective platform.

5.2. FUTURE SCOPE:

1.Validation for the donor form can be added in order to prevent any invalid details.

2.Collaboration with some blood banks can be made in order to make the website available for lager chunk of people.

3.Time limits can be set for the donor in order to ensure that there is recommended time gap in between donations.

4.A mobile app can be built after certain enhancements to the website which will be more easy to access.

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About - Google Fonts