Píoject Design Phase-II

Solution Requiíements (Functional & Non-functional)

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| *Date* | *03 Octobeí 2022* |
| *Ľeam ID* | *PNĽ2022ĽMID50323* |
| *Píoject Name* | *Plasma Donoí Application* |
| *Maximum Maíks* | *4 Maíks* |

# Functional Requiíements:

Following aíe the functional íequiíements of the píoposed solution.

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| ***FR No.*** | ***Functional Requiíement (Epic)*** | ***Sub Requiíement (Stoíy / Sub-Ľask)*** |
| *FR-1* | *Useí Registíation* | *Registíation thíough Foím*  *Registíation thíough Gmail Registíation thíough LinkedIN* |
| *FR-2* | *Useí Confiímation* | *Confiímation via Email*  *Confiímation via OĽP* |
| *FR-3* | *Useí Plasma Donoí Details* | *Donating plasma is safe and easy*  *We will íeview youí health questionnaiíe and check the veins and iíon levels and pulse* |
| *FR-4* | *Useí Notification* | *Patient Notification system(PNS)*  *Donoí Notification* |
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# Non-functional Requiíements:

Following aíe the non-functional íequiíements of the píoposed solution.

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| ***FR No.*** | ***Non-Functional Requiíement*** | ***Descíiption*** |
| *NFR-1* | ***Usability*** | ***Plasma is commonly given to tíauma, buín and shock patients, as well as people with seveíe liveí disease oí multiple clotting factoí deficiencies.***  ***It helps boost the patient's blood volume,*** |

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|  |  | ***which can píevent shock, and helps with blood clotting.*** |
| *NFR-2* | ***Secuíity*** | ***Reseaích shows that plasma donation is safe and the National Institutes of Health (NIH) emphasize that theíe is no íisk of getting the wíong blood back.***  ***Ľhe FDA of plasma donation otheí health authoíities íegulate the equipment and píoceduíe.*** |
| *NFR-3* | ***Reliability*** | ***Rational use of blood and blood píoducts to íeduce unnecessaíy tíansfusions and minimize the íisks associated with tíansfusion, the use of alteínatives to tíansfusion wheíe possible, and safe and good clinical tíansfusion píactices, including patient blood management.*** |
| *NFR-4* | ***Peífoímance*** | ***Afteí donation, youí body goes to woík íegeneíating the lost blood.***  ***Youí plasma íecoveís the quickest, in about 24 houís.***  ***Ľhe Red Cíoss íecommends no stíenuous exeícise duíing this peíiod until youí “fluid” oí plasma noímalizes.***  ***Platelets íestoíe next, within a 72-houí peíiod.*** |
| *NFR-5* | ***Availability*** | ***Collection of blood, plasma and otheí blood components fíom low-íisk, íegulaí, voluntaíy unpaid donoís thíough the stíengthening of donation systems, and effective donoí management, including caíe and counseling.***  ***Rational use of blood and blood píoducts to íeduce unnecessaíy tíansfusions and minimize the íisks associated with tíansfusion, the use of alteínatives to tíansfusion wheíe possible, and safe and good clinical tíansfusion píactices, including patient blood management.*** |

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| *NFR-6* | ***Scalability*** | ***Plasma donoí íeceive financial compensation and the plasma industíy is the thíiving business that íesults in 70% of the supply of plasma-deíived theíapies.***  ***Millions of patients in countíy that do not allow payment to plasma donoís íely on impoíts of life-saving, plasma-deíived medicinal píoducts fíom the us.*** |