**GRAPH THEORY ASSIGNMENT**

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**B. United Nations Sustainable Development Goals :-5**

The 17 SDGs are:

(1) [No Poverty](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_1),

(2) [Zero Hunger](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_2),

(3) [Good Health and Well-being](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_3),

(4) [Quality Education](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_4),

(5) [Gender Equality](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_5),

(6) [Clean Water and Sanitation](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_6),

(7) [Affordable and Clean Energy](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_7),

(8) [Decent Work and Economic Growth](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_8),

(9) [Industry, Innovation and Infrastructure](https://en.wikipedia.org/wiki/Industry,_Innovation_and_Infrastructure),

(10) [Reducing Inequality](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_10),

(11) [Sustainable Cities and Communities](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_11),

(12) [Responsible Consumption and Production](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_12),

(13) [Climate Action](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_13),

(14) [Life Below Water](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_14),

(15) [Life On Land](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_15),

(16) [Peace, Justice, and Strong Institutions](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_16),

(17) [Partnerships for the Goals](https://en.wikipedia.org/wiki/Sustainable_Development_Goal_17).

**C. Problem Statement:**

<< The problem Is that in our day to day life we need many of the jobs done by the service providers we call as domestic trade service provider like electricians, painters, plumbers, drivers, carpenters, labourers , fitters, mechanics, gardeners, water service, milkman ,maid, vendors, etc. But reaching out these personnels is not a easy task though . Also there is too much variance in the pricing of these works . >>

**D. Introduction:**

<<India as of now having 1 out of 5 people is poor. A huge number of people are engaged in providing domestic services to the people for money. There are several issues that are faced by them :

1. Lack of quality employment or under employment.
2. Seasonality of work.
3. Poor skill and technology.
4. One of the unorganized sectors in india.
5. Inadequacy of laws and legislations.
6. Wages discrepancy .

Addition to this, the common people who needs these type of services has no platform or an easy way to reach out to them. In order to facilitate ease of service & better life for the workers, this sector need to be organized. This can be done in a single way by providing a common platform to both the service provider and service taker

>> As far as the solution’s alignment to the UN’s SDG programme is concerned we can easily relate through the given graph :-

**Where ,**

**P:- Proposed solution ,**

**: - 1,2,3,8,9 have their meaning from SDG list**

**E. Previous Related Work:**

<< There are no as such proper solutions to this problems since it is harder to step into such unorganized sector with low skillsets.

But there are some applications which is working for last few yesars in sectors like IT and industries. Some of them are :

1. Workex : By workex solutions and services pvt. Ltd.
2. Qjobs : By Quess corps.
3. Internshala

Though these are having strong APIs working in market which can very helpful in understanding and developing our platform but these systems are less automated and does not quick response systems which we require in order to serve our cause. >>

**F. Proposed Solution:**

<<

1. Model Diagram
2. Components Required/ Technology Frameworks/ Platforms
3. A Web page & a application i.e. software development part
4. Visual designing
5. Training content development
6. Data management
7. Gps and payment gateways
8. Working Principle

The working would be like both the sevice seeker and provider will come to a single platform

And get all their requirements listed . our automated system will bring the closest service provider to the seeker with their location and a way to contact.

**G. Results/Expected Outcomes:**

Giving a common patform will mitigates all the hurdles specified in the introduction section.

**H. Risk and Mitigation Plan:**

The main risk involved with the proposed solution might be in payment or work satisfaction for the service seekers.

This can be solved by introducing review system to both the service providers and consumer’s id.

**I. Conclusion and Future Work:**

<<A good team under a proper guidance and with proper skillsets can definitely achieve this dream.

As of me I will definately work on this project if not now later.>>