



Abstract

		<b>Lang</b>	<b>Spec</b>	<b>Stage</b>
<b>School year</b>	2023- 2024	English		6
<b>Research Title</b>	Cultivating the Future: "Vertical Farming: Solving Space Issues in Small Homes"			

**Research specificati on**

**Sub specification**

**Research class** Year 6A

**Shortcut**

**School Name** Next generation School -Ain khalid

Members	Member type
Mania Ghai	
Year 6A	Students

<b>Introduction</b>	The "Cultivating the Future: 'Vertical Farming: Solving Space Issues in Small Homes'" project embarked on a mission to address the challenges faced by urban high-rise apartment dwellers. Through extensive research and practical initiatives, it aimed to enhance living standards by introducing innovative solutions like vertical farming. This approach not only addresses the scarcity of green spaces but also tackles environmental concerns, promoting a sustainable lifestyle
<b>Reasons for choosing</b>	The project was motivated by the urgent need to reconnect urban residents with nature and address environmental sustainability in densely populated areas.
<b>Importance of the Research</b>	It highlights critical urban living challenges, including social isolation and limited access to nature, underscoring the need for innovative solutions.

<b>Research Objectives</b>	To explore vertical farming's potential in improving urban living conditions by reintroducing green spaces and promoting sustainability.
<b>Research Question</b>	Can vertical farming serve as a viable solution to the challenges of limited access to nature and environmental concerns in urban apartments?
<b>Research Methodology</b>	Involved in-depth research, practical initiatives, and community participation, including immersive experiences at Expo Oordreo and consultations with industry experts.
<b>Results</b>	The project's findings indicate that vertical farming can significantly mitigate urban living challenges by enhancing air quality, promoting community involvement, and supporting sustainable living habits. The implementation phase within a school premise showcased vertical farming's educational and sustainable food source potential. These outcomes align with Qatar's Vision 2030, emphasizing knowledge enrichment, community awareness, and technological progress.
<b>Recommendations</b>	<p><b>Pilot Setups:</b> Establish pilot vertical farming setups to evaluate their impact and feasibility.</p> <p><b>Curriculum Integration:</b> Integrate vertical farming concepts into the educational curriculum to foster awareness and technical knowledge among students.</p> <p><b>Community Engagement:</b> Encourage ongoing community participation and engagement through workshops, seminars, and social media.</p> <p><b>Educational Outreach:</b> Extend outreach efforts to inform and involve the broader community, enhancing the project's visibility and support.</p>