THE IMPACT OF EDUCATION ON THE DEVELOPMENT OF THE YOUNG GENERATION WAY FORWARD IN THE 5.0 SOCIETY

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ABSTRACT

The vital role that education plays in empowering and influencing the lives of young people way forward at the beginning of 5.0 society is examined in this article. The educational system must change as quickly as technology does in order to provide young students the skills and competencies they need to succeed in this fast-paced era. The younger generation needs to be given the space to be an important driving force in development, politics and economics. The important educational components that are essential for sustaining life and promoting the growth of the next generation in the 5.0 civilization are examined in this essay, including technology literacy, critical thinking, creativity, and social and emotional intelligence. In order to achieve a smooth transition to the 5.0 society, it also analyses the potential problems connected with educational change to suite the job market and emphasizes the significance of cooperation between educational institutions, policymakers, and other stakeholders.

Keywords: *Education, 5.0 Society, Teaching, Young Generation*

INTRODUCTION

Background and context

A new period known as the "5.0 society" is defined by rapid technological development, connectivity, and the incorporation of artificial intelligence (AI), big data, and the Internet of Things (IoT) into many facets of everyday life. The 4.0 civilization is intimately related to automation and the digital transformation of industries, making it a development from earlier industrial revolutions. Building on these principles, the 5.0 society stresses the blending of technology and humans with the goal of fostering a more empowered, sustainable, and inclusive society (Tavares et al., 2022) . Young generation should be prepared with blended package of behavioural skills to sustain the new era job market demand.

Education is crucial for influencing young people's life in the 5.0 society and preparing them for the possibilities and difficulties of this changing time (Burbules et al., 2020) . Traditional educational models and methods may not be sufficient today to provide students the skills and abilities they need to succeed in this changing world (Haleem et al., 2022) . The education system must adapt and embrace cutting-edge pedagogies, curriculum, and learning experiences that promote the formation of a future-ready workforce while technology evolves at an unprecedented rate (Education, n.d.).

Technology literacy, critical thinking, creativity, and social and emotional intelligence are all highly valued in the 5.0 society (Carayannis & Morawska-Jancelewicz, 2022a) . In an increasingly linked world, these basic talents enable people to successfully navigate the digital environment, think critically and solve difficult issues, encourage creativity and entrepreneurship, and build lasting connections and relationships.

Given this background and situation, it is critical to examine how education contributes to the empowerment of young people in the new era of job career. We may plot the way for an inclusive and empowering educational system that equips young learners for success in the 5.0 society by looking at the fundamental features of education that are crucial to comply to the work force high technology application.

Objective and Significance of The Paper

The objective of this paper is to investigate and highlight the crucial role of education in empowering and shaping the lives of the young generation in the 5.0 society. The paper aims to explore the specific aspects of education that are essential for powering life in this era of rapid technological advancement and societal transformation. By examining the importance of technological literacy, critical thinking, creativity, and social and emotional intelligence, the paper seeks to provide insights into the necessary competencies and skills that educational systems should foster in order to prepare young individuals for success in the 5.0 society. The significance of this paper lies in its contribution to the ongoing discourse on educational transformation in the context of the young generation way forward in 5.0 society.

Furthermore, this paper highlights the challenges and opportunities associated with educational transformation for the young generation. It emphasizes the need for policymakers and educational institutions to address issues of curriculum relevance, adaptability, and inclusivity. The paper also emphasizes the importance of collaboration and partnership among stakeholders to foster a successful transition to the 5.0 society. Overall, this paper aims to contribute to the understanding of the role of education in empowering the young generation, ensuring their preparedness for the 5.0 society, and ultimately shaping a future where individuals can thrive in a rapidly changing and technologically advanced world.

THE 5.0 SOCIETY: UNDERSTANDING THE PARADIGM SHIFT

Definition and characteristics of the 5.0 society

A new paradigm known as the "5.0 society" is defined by the coexistence of technology and people, and is fuelled by developments in artificial intelligence, big data, and the Internet of Things. Beyond the earlier industrial revolutions, it symbolizes the next stage of societal growth. The 5.0 society stresses the integration of technology to create a more inclusive, sustainable, and empowered society

while building on the principles of the digital transformation seen in the 4.0 society. (Deguchi et al., 2020) Technology permeates many facets of everyday life, employment, and interpersonal relationships in the 5.0 society. Automation, robots, AI, and IoT are examples of advanced technologies that have a substantial impact on productivity, process optimization, and general quality of life. The 5.0 society places a strong emphasis on human-machine cooperation and synergy.

People must develop new skills, keep up with knowledge updates, and embrace lifelong learning in order to prosper in this dynamic setting given how quickly technology is developing (Sudibjo et al., 2019). In summary, the 5.0 society represents a paradigm shift where technology and humanity converge, fostering a more interconnected, sustainable, and empowered society

Implications of Technological Advancements on Society and Education

The development of technology has a significant impact on society and education (Nickerson & Zodhiates, 2013). To fully use these implications, which have an impact on many facets of our life, considerable thought and adaptation are needed. Technological progress propels economic change through restructuring sectors, generating new work positions, and upending established employment patterns. Certain jobs may be replaced by automation and AI while new possibilities in burgeoning industries are created (Acemoglu & Restrepo, 2018).

The skills required by the workforce must change as a result of technological improvements (Li, 2022). This method caters to a variety of learner profiles and improves learning results while increasing learner engagement. Global connectedness is made possible by technology, facilitating cross-border cooperation and knowledge sharing. Cross-cultural interactions, project collaboration with classmates from other nations, and access to a variety of learning materials and viewpoints are all opportunities for students and educators (Le et al., 2018). The roles of instructors and students are being redefined by technology (Amin, 2016).

In conclusion, changes in technology have a significant impact on both society and education. They alter social dynamics, worker skills, learning strategies, and the economy.

The Need for Education to Adapt to The Demands of Work Force in Society 5.0

To meet the needs and realities of the fast-changing world, education systems must undergo major transformation in order to meet the expectations of the 5.0 society (Prastowo et al., 2020). Some important arguments for why education must change to meet the needs of society 5.0. The 5.0 society is characterized by pervasive technology integration (Barrett et al., 2021). To traverse the digital world, comprehend developing technologies, and maximize their potential, people must become technologically literate. Technology has to be included into education as a fundamental part of the curriculum, educating pupils digital literacy, information literacy, and responsible technology usage. A range of talents beyond conventional academic knowledge are required for the work force in 5.0 society.
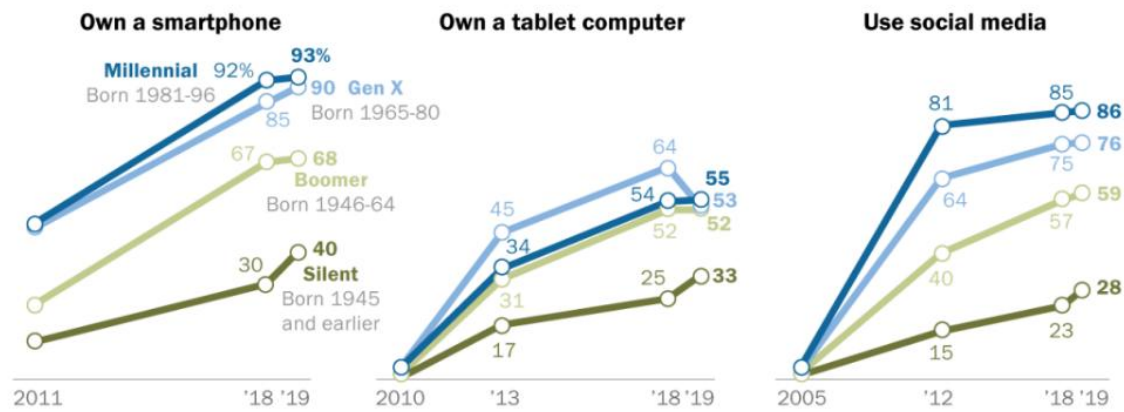
Young generation way forward digital era.

The term "young generation" is generally used to refer to people who are currently in their adolescence or early adulthood. However, there is no single, universally accepted definition of the term. The United Nations defines youth as "those persons between the ages of 15 and 24 years," but this definition is not always used by other organizations or governments. More broadly, the term "young generation" can refer to any group of people who are relatively young compared to the general population.

Previous Pew Research Center surveys have found that the young generation face no barriers to adopting new technologies – high level of confidence in using new technologies towards physical challenges manipulating various devices.

Millennials lead on some technology adoption measures, but Boomers and Gen Xers are also heavy adopters

% of U.S. adults in each generation who say they ...

Own a smartphone

Millennial 92% — 93%
Born 1981-96 — 90 Gen X
85 Born 1965-80
67 — 68 Boomer
Born 1946-64
30 — 40 Silent
Born 1945 and earlier

2011 — '18 '19

Own a tablet computer

64
54 — 55
45 — 53
34 — 52
31 — 52
17 — 25 — 33

2010 — '13 — '18 '19

Use social media

81 — 85 — 86
75 — 76
64 — 57 — 59
40 — 23 — 28
15

2005 — '12 — '18 '19

Note: Those who did not give an answer are not shown.
Source: Survey conducted Jan. 8 - Feb. 7, 2019.

PEW RESEARCH CENTER

This could include people of any age, but it is most commonly used to refer to people who are still in their teens or early twenties. They are digital natives. This means that they have grown up with technology and are comfortable using it for a variety of purposes. Digital natives are not just accustomed to technology; they are fluent in it. They are able to navigate the digital world with ease and confidence, using technology to communicate, learn, and entertain themselves, March Prensky (2021).

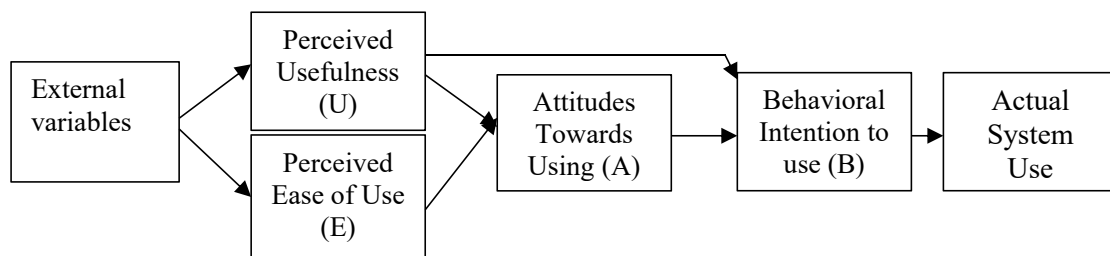**Theory based: Technology Acceptance Model (TAM)**

Figure 2. Original Technology Acceptance Model21

TAM has been applied in numerous studies testing user acceptance of information technology, for example, word processors (Davis et al., 1989), spreadsheet applications (Mathieson, 1991), e-mail (Szajna, 1996), web browser (Morris & Dillon, 1997), telemedicine (Hu et al., 1999), websites (Koufaris, 2002), e-collaboration (Dasgupta, Granger & Mcgarry, 2002), and blackboard (Landry, Griffeth & Hartman, 2006). In this study, the e-learning was considered a system that makes use of Internet and web technology in accomplishing its mission of delivering information to and interacting with the students through a computer interface.

Others extensions from the original framework of Unified Theory of Acceptance and Use of technology (UTAUT) was develop for this study to explain and predicts the acceptance of technology and given variance of information technologies and advances in the sector. Whereas UTAUT have been tested in different geographical contexts to understand the role of culture in technology adoption and solidify the generalisability of the theory tenets. (Gupta,2008; Im, Hong & Kang, 2011; Venkatesh, Thong & Xu, 2012)

TECHNOLOGICAL LITERACY: NAVIGATING THE DIGITAL LANDSCAPE

Importance of digital skills and literacy

Due to the pervasiveness of technology and the digitization of many aspects of life, digital literacy and skills are of utmost significance in the work force in 5.0 society (Audrin & Audrin, 2022). Digital and internet technologies provide users unparalleled access to a wealth of knowledge. People that are digitally literate are better able to find, assess, and critically analyse information. It helps people to recognize trustworthy sources, differentiate between truth and opinion, and arrive at judgments with knowledge in a technologically advanced and information-rich world. Across all industries, having digital skills is becoming necessary for employment. The 5.0 society requires a workforce skilled in using digital tools, collaborating online, analysing data, and communicating via digital platforms.

In the 5.0 society, digital literacy and skills are essential because they improve information access, increase job opportunities, foster communication, and collaboration, encourage creativity, support personal and professional development, encourage civic engagement, and guarantee cybersecurity. For people to successfully navigate, contribute to, and flourish in the technologically sophisticated and interconnected environment of the 5.0 society, they must embrace and enhance their digital literacy and abilities.

Integrating Technology in The Curriculum

To fully take advantage of technology's promise to improve teaching and learning experiences in the 5.0 society, curricular integration is essential (Kopp, 2015).

Learning objectives determine the learning goals and outcomes that can be improved by integrating technology first (Kopp, 2015) . Analyze the ways in which technology might assist and improve student engagement, learning, and accomplishment in certain subject areas or skill sets. Choose technological tools, programs, and resources that are in line with the students' requirements and the learning objectives. Several choices should be taken into consideration, including instructional software, internet platforms, simulations, multimedia materials, and mobile apps.

Use technology to help students and instructors collaborate and communicate (OECD, 2009). Students can work together on projects, exchange ideas, give comments, and participate in peer-to-peer learning through the use of platforms including discussion boards, video conferencing tools, and collaborative document editing tools.

Encourage ethical decision-making and critical thinking in the digital sphere. Technology integration into the curriculum necessitates deliberate design, continuing professional development, and evaluation (Alemdag et al., 2019) . Educators may provide tailored, future-ready learning experiences for pupils in the 5.0 society by utilizing technology efficiently.

CRITICAL THINKING AND PROBLEM-SOLVING: NURTURING FUTURE INNOVATORS

Promoting Critical Thinking Skills in Education

In the 5.0 society, it is crucial to encourage critical thinking abilities in order to provide students the tools they need to assess, analyze, and make informed decisions in a complex and changing environment (Murawski, 2014) . Integrating explicit training on critical thinking skills into the curriculum is one strategy to enhance critical thinking abilities in education. Teach pupils the ideas and concepts of critical thinking, including logical reasoning, assessing the reliability of the evidence, analyzing arguments, and problem-solving techniques. Give concise explanations and illustrations and assist students in using these abilities in a variety of topic areas. To promote inquiry-based learning and critical thinking, encourage questions (Cáceres et al., 2020) . Encourage pupils to ponder challenging issues, consider other viewpoints, and do in-depth research (Golding, 2011).

As a teacher, you should demonstrate critical thinking techniques and assist pupils in developing their own critical thinking skills. Ask insightful questions, discuss your own thought processes, and assist students as they go through difficult assignments. Offer feedback and scaffolding that will help people enhance their critical thinking abilities.

By using these techniques, instructors may help students develop their critical thinking abilities, enabling them to deal with complexity, make wise judgments, and succeed in the 5.0 society.

Problem-Solving Approaches for the 5.0 Society

Problem-solving approaches in the 5.0 society need to be adaptive, collaborative, and focused on finding innovative and sustainable solutions (Carayannis & Morawska-Jancelewicz, 2022b). Several problem-solving approaches that are effective in the 5.0 society are design thinking is a human-centered problem-solving approach that emphasizes empathy, creativity, and iteration. It involves understanding the needs and perspectives of users, defining the problem, ideating potential solutions, prototyping, and testing. Design thinking encourages collaboration, out-of-the-box thinking, and a deep understanding of the problem context.

Agile problem-solving approaches, derived from software development methodologies, emphasize flexibility, collaboration, and iterative solutions (Shore & Warden, 2021). Agile problem-solving involves breaking down complex problems into manageable tasks, setting short-term goals, regularly reviewing and adapting strategies, and collaborating in cross-functional teams. This approach allows for quick adjustments and fosters a culture of continuous improvement.

Encouraging individuals to reflect on past experiences, learn from failures, and iterate on solutions promotes a culture of innovation and adaptability. It fosters an environment where problem-solving becomes an ongoing process of learning and growth.

Encouraging Creativity and Innovation in The Learning Process

To educate students for the dynamic and ever-changing 5.0 society, it is essential to foster creativity and innovation throughout the learning process (Zainuri, 2021). Establishing a learning environment in the classroom that promotes exploration, risk-taking, and free expression of ideas is one of several techniques to promote creativity and innovation in education. Encourage the development of a respectful, cooperative, and accepting culture. Make settings that stimulate creativity, such specific areas for brainstorming, maker spaces, or painting nooks. Students can explore areas of interest, pose questions, and follow their own paths of investigation when learning is inquiry-based (Magnussen et al., 2000).

All along the learning process, set aside time for reflection and modification. Encourage pupils to review their work, assess their development, and pinpoint their areas of weakness (Helyer, 2015). As part of the creative process, promote revision and iterative thinking. Insist on the fact that failure offers a priceless chance for growth and learning.

Make use of digital tools and technology to foster innovation and creativity. Introduce students to online collaboration tools, coding environments, multimedia editing programs, and digital production tools. Encourage your children to use technology to discover new ideas, collaborate with others, and express their creativity. By putting these techniques into practice, educators may foster students' creativity and ingenuity, giving them the tools, they need to think critically, solve challenging challenges, and survive in the dynamic environment of the 5.0 society.

SOCIAL AND EMOTIONAL INTELLIGENCE: FOSTERING WELL-ROUNDED INDIVIDUALS

The Role of Social and Emotional Intelligence in the 5.0 Society

In the 5.0 society, which stresses the merger of technology and humans as well as the value of interpersonal relationships and emotional wellbeing, social and emotional intelligence is vital. (Mourtzis et al., 2023). In the 5.0 society, technology bridges geographical gaps between individuals, but it also makes it difficult to preserve genuine connections. People with social intelligence can go about and establish deep connections in the digital world. It calls for empathy, attentive listening, clear communication, and an appreciation of various viewpoints. People with social intelligence are able to establish lasting bonds, work well in teams, and enhance social interactions. In the 5.0 society, cooperation and teamwork are highly valued. People with social intelligence are able to collaborate effectively, recognize others' contributions, and resolve problems in a positive way. (Kihlstrom & Cantor, 2000) . It involves skills such as cooperation, empathy, communication, and flexibility. Socially intelligent individuals can collaborate in diverse teams, leverage collective strengths, and drive innovation and problem-solving.

Stress levels may rise and emotional difficulties may arise in the technologically advanced and fast-paced 5.0 civilization. People with emotional intelligence are better able to comprehend, control, and relate to their own emotions as well as those of others. (Drigas & Papoutsi, 2020).

The integration of technology in the 5.0 society raises ethical considerations and challenges (Mourtzis et al., 2022) . Education systems and society can give people the abilities and mindset necessary to successfully navigate the complexities of the 5.0 society, foster positive relationships, support well-being, and contribute to a more inclusive and human-centered future by encouraging social and emotional intelligence in individuals (Drigas & Papoutsi, 2020).

**Integrating Social and Emotional Learning (SEL) In Education**
Social and emotional learning (SEL) integration in the classroom is essential to promote students' overall development and get them ready for the 5.0 society. Implement a SEL program that focuses on teaching social and emotional competencies. Create age-appropriate activities and courses that address important skills including relationship building, self-management, social awareness, and self-awareness. Integrate SEL training across disciplines and grade levels to provide thorough coverage (Wallender et al., 2020).

Integrate social and emotional learning (SEL) into academic classes to highlight the importance and practical use of these abilities. For instance, while teaching literature, talk about the feelings and intentions of the characters. Investigate ethical issues associated with technology or environmental concerns in a scientific lecture. Make connections between the classroom and real-world circumstances and include students in discussions on moral and ethical quandaries. (Cude & Haraway, 2022).

CONCLUSION

Summary of Key Findings
Based on earlier researcher finding during Covid-19, Learning Management System report shown the following result; Information quality, accessibility, and perceived enjoyment impact the ease of use and perceived usefulness. Students' interest in and intention to use technology in learning have been increased by perceived ease of use and perceived usefulness.
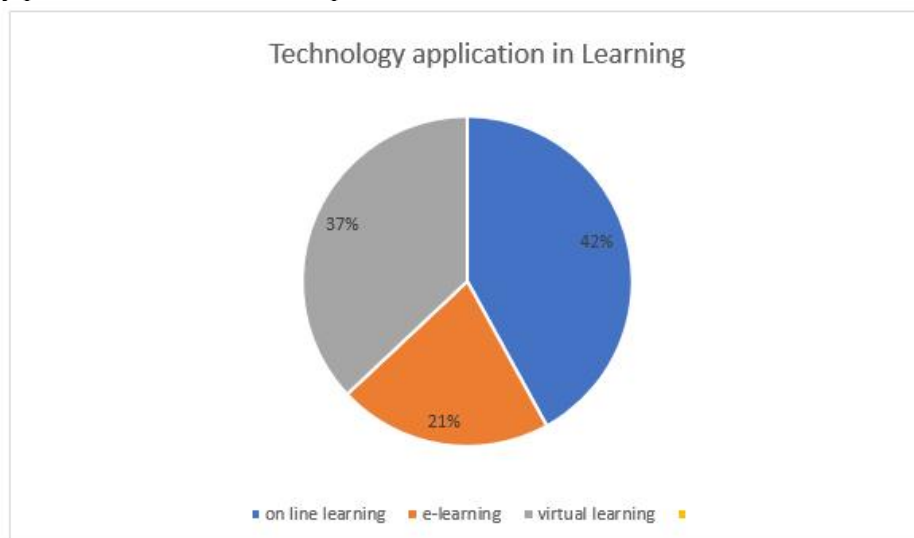
(Source from; Abid Haleem et.al 2022)

Thus, a consideration for the policy maker is needed to upgrade a school facility, internet coverage and provide a support for the society to fostering digital skill.

The 5.0 society presents unique challenges and opportunities for education. Key findings from the discussion include:
1. The 5.0 society is characterized by rapid technological advancements and the fusion of technology with humanity towards future job readiness.

2. Technological advancements have significant implications for society and education, requiring a shift in teaching and learning approaches.
3. Education needs to adapt to the demands of the 5.0 society by integrating technology, fostering digital skills and literacy, and promoting critical thinking and problem-solving.
4. Social and emotional intelligence plays a crucial role in the 5.0 society, emphasizing the importance of interpersonal connections and emotional well-being.
5. Education should address the digital divide and ensure equal access to technology to promote equity and inclusion.

These results emphasize the necessity for educational systems to adjust to the shifting nature of the 5.0 society, empowering students with the abilities, information, and frame of mind necessary for success in a technologically advanced, globally interconnected world.

Recommendations for Fostering the Development of The Young Generation
To foster the development of the young generation in the 5.0 society, several recommendations can be implemented:

- Holistic Education: Give them a well-rounded education that takes into account their physical, emotional, social, and cognitive growth. Provide a balanced curriculum that combines academic content with social-emotional learning, physical education, the arts, and extracurricular activities.
- Personalized Learning: Accept individualized teaching strategies that are tailored to the specific requirements, passions, and skills of every young person. Give children the chance to define objectives, make decisions, and participate in self-directed learning. Provide personalized teaching and open-ended learning paths to account for various learning preferences and styles.
- Future-Oriented Skills Development: Give emphasis on the development of future-oriented abilities including flexibility, creativity, communication, teamwork, problem-solving, and critical thinking. Include these abilities in the curriculum and offer chances for project-based, experiential learning.
- Cultivate a Growth Mindset: Encourage young people to adopt a growth mindset by stressing the confidence in their capacity to learn, develop, and overcome obstacles. Encourage tenacity, resiliency, and an optimistic outlook on learning. Offer criticism and encouragement that encourages work, advancement, and ongoing growth.
- Promote Global Citizenship: To create young people who are aware of global challenges, cherish variety, and engage in intercultural understanding, promote global citizenship education. Include possibilities for cross-cultural collaboration, global viewpoints, and knowledge of cultural differences.
- Enhance Digital Literacy: Put a lot of focus on digital literacy to give kids the knowledge and abilities they need to use technology appropriately. Teach students about digital citizenship, internet safety, information evaluation, and responsible use of digital resources. Give children the chance to practice their digital creating talents.
- Encourage Creativity and Innovation: Encourage youth to think creatively and innovatively. Create chances for creative expression, problem-solving, and diverse thinking. Establish a setting that appreciates and supports creativity, curiosity, and risk-taking.
- Foster Social and Emotional Well-being: Give young people's social and emotional wellbeing a priority. Encourage self-awareness, empathy, emotional control, and social and emotional learning. Establish a welcoming, comfortable workplace that promotes good relationships and mental wellness.

By putting these suggestions into practice, stakeholders may promote the overall growth of the young generation, putting them in a position to flourish in society 5.0 and contribute to a sustainable, inclusive, and inventive future.

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