

2015-16



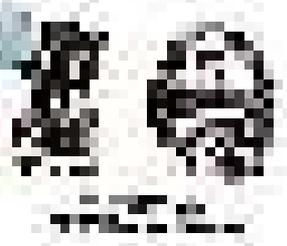
Back to Village

GOVERNANCE OF THE DISTRICT

2015-16



Government of Jammu & Kashmir



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MEMORANDUM

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FROM : [illegible]

SUBJECT: [illegible]

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Generalized Behavior of the Floating Object

Consider a rectangular block of length L and height H floating in a fluid of density ρ_f . The block has a density ρ_b and is partially submerged to a depth h . The forces acting on the block are its weight W acting downwards from the center of mass and the buoyant force F_b acting upwards from the center of buoyancy.

1. The weight of the block is given by $W = \rho_b L H g$. The buoyant force is given by $F_b = \rho_f L h g$. For the block to be in equilibrium, the forces must balance: $W = F_b$.

2. The condition for equilibrium is $\rho_b L H g = \rho_f L h g$, which simplifies to $\rho_b H = \rho_f h$. This equation relates the density of the block, its total height, the density of the fluid, and the submerged height.

3. The center of mass of the block is at a height of $H/2$ from the bottom. The center of buoyancy is at a height of $h/2$ from the bottom. For the block to be in equilibrium, the centers of mass and buoyancy must be vertically aligned.

4. The stability of the floating object depends on the relative positions of the center of mass and the center of buoyancy. If the center of buoyancy is above the center of mass, the object is stable.

5. The condition for stability is that the center of buoyancy must be above the center of mass. This is satisfied when $\rho_b H < \rho_f h$, which is the same condition as for equilibrium.

6. The condition for neutral equilibrium is that the center of mass and the center of buoyancy are at the same height. This occurs when $\rho_b H = \rho_f h$.

7. The condition for unstable equilibrium is that the center of mass is above the center of buoyancy. This occurs when $\rho_b H > \rho_f h$.

8. The condition for stable equilibrium is that the center of buoyancy is above the center of mass. This occurs when $\rho_b H < \rho_f h$.

9. The condition for neutral equilibrium is that the center of mass and the center of buoyancy are at the same height. This occurs when $\rho_b H = \rho_f h$.

10. The condition for stable equilibrium is that the center of buoyancy is above the center of mass. This occurs when $\rho_b H < \rho_f h$.

PROCESSES OF THE POLYMERIZATION OF VINYL MONOMERS

1. Initiation

The reaction of a free radical with a vinyl monomer to form a radical intermediate.

$R\cdot + CH_2=CH-R' \rightarrow R-CH_2-\dot{C}H-CH_2-R'$

The radical intermediate then reacts with another monomer to form a dimer radical.

$R-CH_2-\dot{C}H-CH_2-R' + CH_2=CH-R' \rightarrow R-CH_2-CH_2-\dot{C}H-CH_2-R'$

This process continues to form a polymer chain.

$R-CH_2-CH_2-\dot{C}H-CH_2-R' + CH_2=CH-R' \rightarrow R-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R'$

The process continues until the radical is terminated.

$R-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R' + R-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R' \rightarrow R-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-R'$

The termination step results in a dead polymer chain.

$R-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-R'$

2. Propagation

The radical intermediate reacts with a monomer to form a new radical intermediate.

$R-CH_2-CH_2-\dot{C}H-CH_2-R' + CH_2=CH-R' \rightarrow R-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R'$

This process repeats to form a long polymer chain.

$R-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R' + CH_2=CH-R' \rightarrow R-CH_2-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R'$

The process continues until the radical is terminated.

$R-CH_2-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R' + R-CH_2-CH_2-CH_2-CH_2-\dot{C}H-CH_2-R' \rightarrow R-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-R'$

3. Termination

The radical intermediate reacts with another radical to form a stable molecule.

$R-CH_2-CH_2-\dot{C}H-CH_2-R' + R-CH_2-CH_2-\dot{C}H-CH_2-R' \rightarrow R-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-R'$

This process results in a dead polymer chain.

$R-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-R'$

The termination step results in a stable molecule.

$R-CH_2-CH_2-CH_2-CH_2-CH_2-CH_2-R'$

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and reporting, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data collection and analysis. It identifies common issues such as data quality, integration, and security, and provides strategies to mitigate these risks.

5. The fifth part of the document discusses the importance of data privacy and security. It outlines best practices for protecting sensitive information and ensuring compliance with relevant regulations and standards.

6. The sixth part of the document explores the role of data in strategic planning and performance management. It explains how data-driven insights can help organizations identify trends, set goals, and track progress over time.

7. The seventh part of the document discusses the importance of data literacy and training. It emphasizes that all employees should have the skills and knowledge necessary to effectively use data in their work.

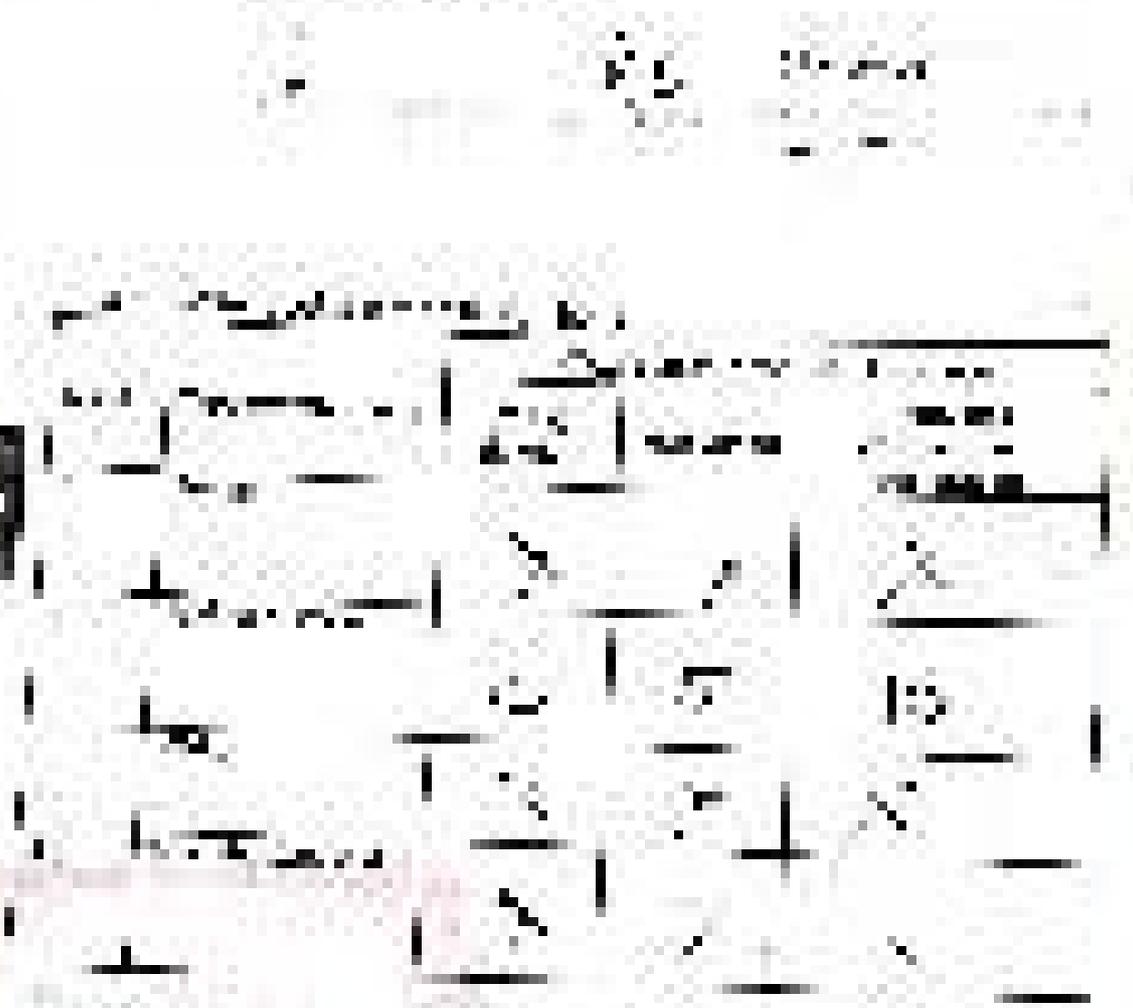
8. The eighth part of the document concludes by summarizing the key points discussed throughout the document. It reiterates the importance of data in driving organizational success and provides a call to action for all stakeholders.

9. The ninth part of the document provides a list of references and resources for further reading. It includes books, articles, and online resources that offer additional insights into data management and analysis.

10. The tenth part of the document is a concluding statement that expresses the author's hope that the document will be helpful and informative for all readers. It also provides contact information for any further inquiries.

11. The final part of the document is a signature block where the author's name and title are provided. It also includes the date and location of the document's completion.

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1. The first part of the document is the title page.

Author	Title
John Doe	My First Book
Jane Smith	My Second Book
Bob Johnson	My Third Book
Alice Brown	My Fourth Book

2. The second part of the document is the main body of text. It contains several paragraphs of text, including a list of items and a table of data.

3. The third part of the document is the conclusion. It summarizes the main points of the document and provides a final statement.

Category	Value
Item 1	100
Item 2	200
Item 3	300
Item 4	400



4. The fourth part of the document is the final section, which includes a list of references and a bibliography.

5. The fifth part of the document is the end page, which contains the page number and the date of publication.

6. The sixth part of the document is the footer, which contains the author's name and contact information.

7. The seventh part of the document is the appendix, which contains additional information related to the main text.

8. The eighth part of the document is the index, which provides a list of keywords and their corresponding page numbers.

9. The ninth part of the document is the glossary, which defines the terms used in the document.

QUESTION

ANSWER

The first part of the question asks for the definition of a function. A function is a set of ordered pairs (x, y) such that for every x there is exactly one y. The second part asks for the domain and range of the function. The domain is the set of all x values and the range is the set of all y values.

The next part of the question asks for the graph of the function. The graph is a coordinate plane with x and y axes. The function is plotted as a curve that starts at the origin and goes up and to the right. The curve is concave down.

The final part of the question asks for the area under the curve. The area is found by integrating the function from x=0 to x=1. The integral is calculated as follows: $\int_0^1 x^2 dx = \frac{1}{3}x^3 \Big|_0^1 = \frac{1}{3}$.

The next part of the question asks for the volume of the solid formed by rotating the curve around the y-axis. The volume is found by using the disk method. The volume is calculated as follows: $V = \pi \int_0^1 x^4 dx = \pi \frac{1}{5}x^5 \Big|_0^1 = \frac{\pi}{5}$.

The final part of the question asks for the length of the curve. The length is found by using the arc length formula. The length is calculated as follows: $L = \int_0^1 \sqrt{1 + 4x^2} dx$.

Chapter 10: The Nervous System

1. The nervous system is responsible for receiving information from the environment and coordinating the body's response to that information.

2. The nervous system is divided into the central nervous system (CNS) and the peripheral nervous system (PNS).

3. The CNS consists of the brain and spinal cord, while the PNS consists of all other nerves in the body.

10.1 The Central Nervous System: The Brain and Spinal Cord

4. The brain is the central processing unit of the nervous system, responsible for interpreting sensory information and initiating motor responses.

5. The spinal cord is a long, thin, tube-like structure that runs through the vertebral column, serving as a pathway for nerve impulses.

6. The brain is divided into several regions, including the cerebrum, cerebellum, and brainstem. The cerebrum is responsible for higher-level functions such as thought, memory, and emotion.

7. The spinal cord is divided into cervical, thoracic, lumbar, and sacral regions. It is responsible for transmitting signals between the brain and the rest of the body.

8. The nervous system is composed of neurons, which are specialized cells that transmit electrical signals (action potentials) along their length.

9. The cell body of a neuron contains the nucleus and other organelles. Dendrites receive signals from other neurons, and the axon carries the signal away from the cell body.

10. The myelin sheath is a layer of fatty tissue that surrounds the axon, insulating it and speeding up the transmission of nerve impulses.

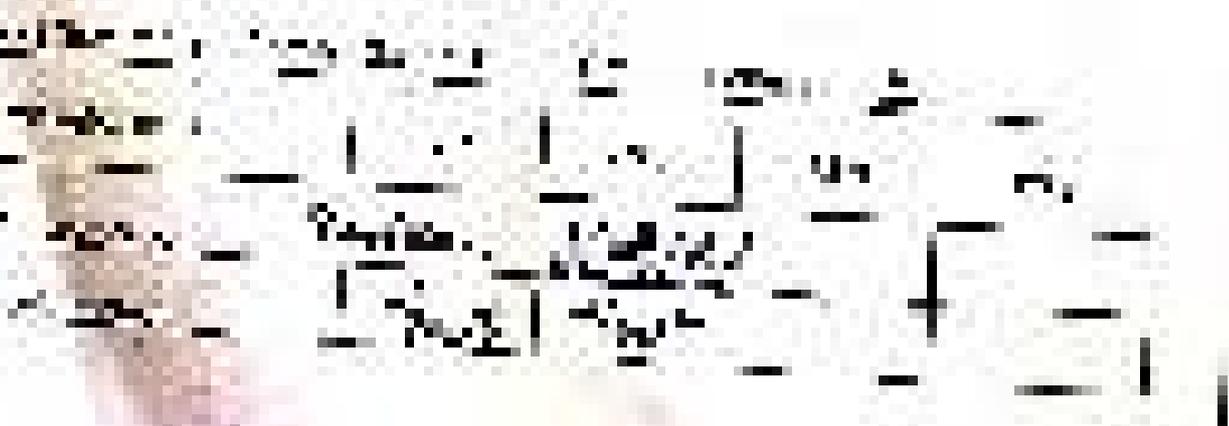
11. The nervous system is highly organized and specialized, allowing it to perform a wide range of functions, from simple reflexes to complex cognitive tasks.

1. Introduction
 2. Background
 3. Methodology
 4. Results
 5. Conclusion

The first part of the report is the introduction, which provides a brief overview of the project and its objectives. This is followed by a detailed background section that discusses the current state of the field and the specific problem being addressed. The methodology section then describes the research methods used to collect and analyze data.

The results section presents the findings of the study, which are then discussed in the conclusion. The conclusion summarizes the key findings and offers suggestions for future research. The report is written in a clear and concise style, using simple language and avoiding unnecessary technical details.

The report is organized into five main sections: Introduction, Background, Methodology, Results, and Conclusion. Each section is clearly labeled and contains relevant information. The Introduction provides a brief overview of the project, while the Background section provides a more detailed context. The Methodology section describes the research methods used, and the Results section presents the findings. The Conclusion summarizes the key findings and offers suggestions for future research.



System description	70	100	100	100
Inputs	100	100	100	100
Outputs	100	100	100	100
Control elements	100	100	100	100
Feedback loops	100	100	100	100
Disturbances	100	100	100	100
Measurement points	100	100	100	100
Control strategies	100	100	100	100
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Performance metrics	100	100	100	100
Validation results	100	100	100	100
Documentation	100	100	100	100
Compliance	100	100	100	100
Future work	100	100	100	100

System description	70	100	100	100
Inputs	100	100	100	100
Outputs	100	100	100	100
Control elements	100	100	100	100
Feedback loops	100	100	100	100
Disturbances	100	100	100	100
Measurement points	100	100	100	100
Control strategies	100	100	100	100
Implementation details	100	100	100	100
Performance metrics	100	100	100	100
Validation results	100	100	100	100
Documentation	100	100	100	100
Compliance	100	100	100	100
Future work	100	100	100	100

Number of students	100	100	100
Number of students who passed	75	75	75
Number of students who failed	25	25	25
Number of students who were absent	0	0	0
Number of students who were late	0	0	0
Number of students who were present	100	100	100
Number of students who were present and passed	75	75	75
Number of students who were present and failed	25	25	25
Number of students who were present and absent	0	0	0
Number of students who were present and late	0	0	0
Number of students who were present and present	100	100	100

2. The following table shows the results of a survey conducted in a school.

Number of students	100	100
Number of students who passed	75	75
Number of students who failed	25	25
Number of students who were absent	0	0
Number of students who were late	0	0
Number of students who were present	100	100
Number of students who were present and passed	75	75
Number of students who were present and failed	25	25
Number of students who were present and absent	0	0
Number of students who were present and late	0	0
Number of students who were present and present	100	100

1. <u>Identifikasi Masalah</u>	1. <u>Identifikasi Masalah</u>
2. <u>Pengumpulan Data</u>	2. <u>Pengumpulan Data</u>
3. <u>Pengolahan Data</u>	3. <u>Pengolahan Data</u>
4. <u>Penyimpulan</u>	4. <u>Penyimpulan</u>
5. <u>Penyajian</u>	5. <u>Penyajian</u>
6. <u>Evaluasi</u>	6. <u>Evaluasi</u>

1. Identifikasi Masalah

2. Pengumpulan Data

3. Pengolahan Data

4. Penyimpulan

5. Penyajian

6. Evaluasi

1. Anterior Chamber - space between cornea and iris

2. Posterior Chamber - space between iris and lens

3. Vitreous Chamber - large space filled with vitreous humor

4. Retina - light sensitive layer at the back of the eye

5. Optic Nerve - carries visual information to the brain

6. Cornea - clear front part of the eye

Structure and Function of the Eye

7. Iris - colored part of the eye that controls the amount of light entering

8. Pupil - opening in the center of the iris

9. Lens - biconvex structure that focuses light on the retina

10. Ciliary Muscles - control the shape of the lens

11. Zonule Fibers - connect the lens to the ciliary muscles

12. Vitreous Body - gel-like substance that fills the vitreous chamber

13. Macula - central part of the retina

14. Optic Disc - where the optic nerve exits the eye

15. Blind Spot - area where the optic nerve exits, lacking photoreceptors

16. Retinal Pigment Epithelium

a. Photoreceptors - rods and cones that detect light

b. Bipolar Cells - connect photoreceptors to ganglion cells

17. Ganglion Cells - send visual information to the brain

18. Optic Nerve - carries visual information to the brain

19. Optic Chiasm - where optic nerves meet

1. The first step is to identify the problem or question that needs to be solved.

2. Next, gather all the relevant information and data that will be needed to solve the problem.

3. Then, choose a strategy or method to solve the problem.

4. Apply the chosen strategy to the problem.

5. Check the solution to make sure it is correct.

6. Finally, reflect on the process and what was learned.

7. Communicate the solution to others.

8. Evaluate the results and make adjustments if necessary.

9. Repeat the process as needed for more complex problems.

10. Remember, the key to solving problems is to stay organized and focused.

11. Always take a moment to think about the problem before jumping into a solution.

12. Don't be afraid to ask for help or advice from others.

13. Keep a record of your solutions and the steps you took to solve them.

14. Review your solutions regularly to see if you can find any patterns or shortcuts.

15. Stay motivated and persistent, and you will be able to solve any problem.

16. Remember, the only way to learn is to do, so don't be afraid to try.

17. Stay curious and keep asking questions, and you will continue to learn and grow.

18. Finally, remember that the most important part of solving a problem is to have fun with it.

19. So, go ahead and give it a try, and you'll be amazed at what you can achieve.

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1. Availability of financial resources
2. Availability of human resources
3. Availability of technical resources
4. Availability of information resources

5. Availability of infrastructure
6. Availability of legal resources
7. Availability of social resources
8. Availability of cultural resources

3. Organizational

1. Organizational structure
2. Organizational culture
3. Organizational climate
4. Organizational behavior

4. Environmental

1. Political environment
2. Economic environment
3. Social environment
4. Technological environment
5. Legal environment
6. Cultural environment
7. Demographic environment
8. Geographical environment
9. Ecological environment
10. Global environment

11. International environment
12. Regional environment
13. Local environment
14. Community environment
15. Family environment
16. Individual environment

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Example: $\int \frac{1}{x^3} dx = \int x^{-3} dx = \frac{x^{-2}}{-2} + C = -\frac{1}{2x^2} + C$

Example: $\int \frac{1}{x^4} dx = \int x^{-4} dx = \frac{x^{-3}}{-3} + C = -\frac{1}{3x^3} + C$

Example: $\int \frac{1}{x^5} dx = \int x^{-5} dx = \frac{x^{-4}}{-4} + C = -\frac{1}{4x^4} + C$

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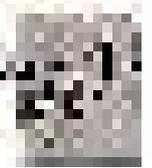
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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

Additionally, it is noted that the records should be kept in a secure and accessible format. Regular backups are recommended to prevent data loss. The document also mentions that the information should be reviewed periodically to ensure its accuracy and relevance.

In conclusion, the document stresses that proper record-keeping is essential for the success of any business or organization. It provides a clear framework for how to handle financial data and ensure its integrity.



The second part of the document outlines the specific steps for creating and maintaining these records. It starts with the initial setup, including the selection of appropriate software or tools. The document then details the process of entering data, highlighting the need for consistency and attention to detail.

It also covers the importance of regular audits and reconciliations. These processes help identify any discrepancies or errors in the records early on. The document provides practical advice on how to conduct these audits effectively.

Finally, it discusses the long-term storage and archiving of records. It suggests using secure cloud storage solutions and maintaining a clear schedule for archiving old data. This ensures that the information remains available for future reference and compliance requirements.

In summary, the document provides a comprehensive guide to record-keeping. It covers everything from the initial setup to the long-term maintenance and archiving of data. Following these guidelines will help ensure that all transactions are accurately recorded and easily accessible.

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1. Introduction

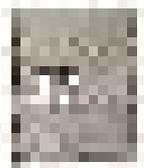
The first part of the document discusses the importance of understanding the underlying principles of the system. It highlights the need for a comprehensive approach that considers both the technical and human aspects of the problem. The goal is to create a robust and scalable solution that can adapt to changing requirements and environments.

2. System Architecture

The system architecture is designed to be modular and flexible, allowing for easy integration with existing systems and future expansion. It consists of several key components, including a data layer, a business logic layer, and a presentation layer. Each component is designed to be independent and reusable, ensuring that the system can evolve over time without significant rework.

3. Data Management

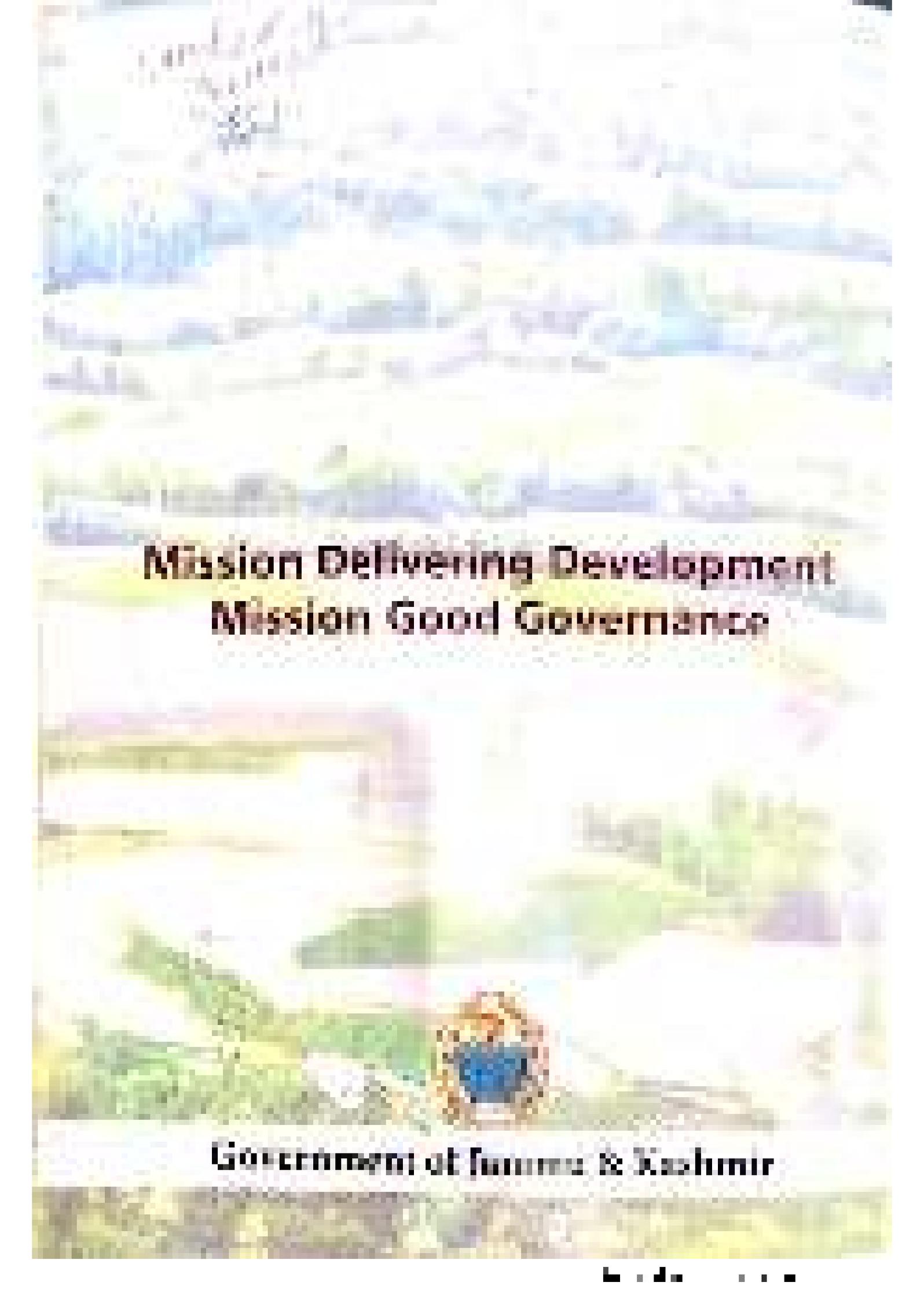
Data management is a critical aspect of the system, involving the collection, storage, and retrieval of information. The system uses a distributed database architecture to ensure high availability and performance. Data is stored in a structured format, and access is controlled through a set of well-defined APIs and security protocols.



The data management system is designed to handle large volumes of data efficiently. It includes features for data backup, recovery, and archiving, ensuring that the system can withstand hardware failures and maintain data integrity. The architecture also supports real-time data processing and analytics, providing users with up-to-date insights and reports.

4. Security

Security is a top priority in the system design, with a focus on protecting sensitive data and ensuring the confidentiality, integrity, and availability of the system. The architecture implements a multi-layered security approach, including network security, application security, and data security. Access to the system is restricted to authorized users, and all data transmissions are encrypted to prevent interception. Regular security audits and updates are performed to address emerging threats and vulnerabilities. The system also includes a robust logging and monitoring mechanism to detect and respond to security incidents in a timely manner.

A scenic view of a lake with mountains in the background and a traditional wooden boat in the foreground. The text is overlaid on the image.

Mission Delivering Development Mission Good Governance

Government of Jammu & Kashmir