

Nursing Informatics Project Ideas

Here are the top Nursing Informatics Project Ideas for students:

Patient Care Technology Projects

1. Make a phone app that reminds nurses when patients need to take medicine.
2. Create a smart system that alerts nurses when it's time to check on patients.
3. Design a tool that tells nurses when IV bags need changing.
4. Build a program that shows which patients need help getting out of bed.
5. Make a system that helps nurses call doctors on their phones.
6. Create a way for nurses to see patient info on tablets at the bedside.
7. Design a program to track how well wounds are healing.
8. Build an app that checks if medicines are safe to use together.
9. Make a system that alerts nurses when patients are in pain.
10. Create a tool that helps nurses track what patients eat.
11. Design a system that tells nurses when to change patient dressings.
12. Build a program that tracks how far patients walk.
13. Make an app that measures and tracks patient vital signs.
14. Create a system to alert nurses when patients feel unwell.
15. Design a tool to track patient sleep patterns.
16. Build a program to remind nurses when patients need water.
17. Make a system that tracks patient bathroom visits.
18. Create a tool for nurses to check patient lab results quickly.
19. Design a way to monitor patient mood changes.
20. Build an app that reminds nurses to turn patients regularly.
21. Make a system to track patient exercise.
22. Create a program to monitor patient skin health.
23. Design a way to track breathing patterns.
24. Build a tool to remind nurses when patients need cleaning.
25. Make an app to track temperature changes in patients.

Education and Training Projects

1. Build a game to teach new nurses how to give shots.
2. Create a phone app to test nurses on medical words.
3. Make a program to teach nurses how to use new hospital tools.
4. Design a way to help nurses practice talking with patients.
5. Build a system to teach nurses about new medicines.
6. Create a tool for nurses to practice taking blood samples.
7. Make a program that teaches nurses about different illnesses.
8. Design a game to help nurses learn patient safety.
9. Build an app to teach nurses how to use medical machines.
10. Create a system to teach proper handwashing techniques.
11. Make a tool to explain patient rights to nurses.
12. Design a program to help nurses practice emergency care.

13. Build a way to teach nurses how to read patient charts.
14. Create a game that teaches infection control.
15. Make a system to help nurses learn about patient diets.
16. Design an app to show nurses how to move patients safely.
17. Build a tool for nurses to practice giving medicine.
18. Create a program that teaches patients the rules of privacy.
19. Make a system to teach about heart problems.
20. Design a way to practice wound care skills.
21. Build an app to teach diabetes care.
22. Create a tool for learning baby care basics.
23. Make a program to show how to handle emergencies.
24. Design a system to practice teamwork in nursing.
25. Build a program to teach about mental health care.

Quality and Safety Projects

1. Make a tool to find medicine mistakes before they happen.
2. Create a system to check if nurses wash their hands often enough.
3. Build a program to track patient falls.
4. Design a way to ensure the right medicine goes to the right patient.
5. Make an app to help nurses report safety concerns.
6. Create a tool to check if patient rooms are clean.
7. Build a system to track how medical tools are cleaned.
8. Design a program to prevent bed sores.
9. Make a way to track patient wait times.
10. Create an app to check if medicines are stored correctly.
11. Build a tool to track infection spread in hospitals.
12. Design a system to help prevent nurse burnout.
13. Make a program to track patient satisfaction levels.
14. Create a way to check if safety rules are followed.
15. Build an app to track how much medicine is used.
16. Design a tool to prevent patient mix-ups.
17. Make a system to track emergency response times.
18. Create a program to help prevent nurse injuries.
19. Build a way to track patient complaint patterns.
20. Design an app to check if the equipment is safe to use.
21. Make a tool to monitor medicine waste.
22. Create a system to prevent needle stick injuries.
23. Build a program to track staff training progress.
24. Design a way to monitor oxygen tank levels.
25. Make an app to check safety drill completion.

Data Analysis Projects

1. Create a tool to find which times need more nurses.
2. Build a system to track how long patients stay in the hospital.
3. Make a program to find patterns in patient problems.

4. Design a way to track which treatments work best.
5. Create an app to show patterns in patient readmissions.
6. Build a tool to monitor medicine use trends.
7. Make a system to find ways hospitals can save money.
8. Design a program to track nurse workloads.
9. Create a way to predict which patients might get sick.
10. Build an app to track recovery times for patients.
11. Make a tool to show patterns in patient visits.
12. Design a system to monitor supply use.
13. Create a program to track infection trends.
14. Build a way to track patient progress over time.
15. Make an app to show how successful treatments are.
16. Design a tool to monitor nurse performance.
17. Create a system to find cost-saving opportunities.
18. Build a program to track patient needs better.
19. Make a way to study medicine effects.
20. Design an app to track patient groups and trends.
21. Create a tool to monitor staff patterns.
22. Build a system to track room usage.
23. Make a program to find gaps in patient care.
24. Design a way to monitor test result patterns.
25. Create an app to track treatment trends.

Communication Projects

1. Make a tool for families to track patient progress.
2. Create a system for nurses to share patient updates.
3. Build a program to help nurses talk to each other.
4. Design a way for night and day nurses to share information.
5. Make an app that lets nurses call for help quickly.
6. Create a tool to help nurses write better notes.
7. Build a system to track nurse meetings.
8. Design a program to share patient stories.
9. Make a way for nurses to ask doctors questions.
10. Create an app to track team goals and progress.
11. Build a tool to help nurses teach patients.
12. Design a system to share good ideas among nurses.
13. Make a program to track nurse feedback.
14. Create a way for nurses to share tips for patient care.
15. Build an app to track staff changes in the unit.
16. Design a tool to help nurses plan patient care.
17. Make a system to share patient needs among teams.
18. Create a program to track team tasks.
19. Build a way for nurses to share concerns safely.
20. Design an app to share news within the unit.
21. Make a tool for nurses to mentor others.
22. Create a system to share success stories.

23. Build a program to track team performance.
24. Design a way for nurses to share knowledge quickly.
25. Make an app to track care plans for patients.

Patient Engagement Projects

1. Create a tool to help patients learn about their care.
2. Build a system that lets patients ask nurses questions.
3. Make a program to help patients track their progress.
4. Design a way for patients to share their needs easily.
5. Create an app to explain medicines to patients.
6. Build a tool for patients to set health goals.
7. Make a system to track patient symptoms.
8. Design a program to teach patients self-care.
9. Create a way for patients to give feedback on care.
10. Build an app to remind patients of appointments.
11. Make a tool to help patients track their diet.
12. Design a system to encourage safe exercise for patients.
13. Create a program to track patient moods.
14. Build a way for patients to share their health stories.
15. Make an app to teach patients about medical tests.
16. Design a tool to track sleep patterns in patients.
17. Create a system to help patients manage pain better.
18. Build a program to encourage patients to stay active.
19. Make a way for patients to monitor their progress.
20. Design an app to explain test results to patients.
21. Create a tool to keep patients connected with caregivers.
22. Build a system to help patients follow their care plans.
23. Make a program to track recovery progress.
24. Design a way for patients to set daily health goals.
25. Create an app to help patients learn about staying healthy.

Capstone Nursing Informatics Project Ideas

Clinical Decision Support

1. Build a smart system to help nurses see early signs of patient problems using vital signs.
2. Create a tool that guides nurses to prevent bed sores based on patient risks.
3. Make a program to help nurses choose the right size breathing tube for patients.
4. Design an app that suggests ways to manage pain based on a patient's history.
5. Develop a system to guide nurses in wound care based on healing progress.
6. Create software to help nurses decide when patients can eat after surgery.
7. Build a tool to help nurses spot patients who might fall.
8. Design a program to guide nurses in giving fluids to patients.
9. Make an app to spot early signs of infection.
10. Create a system to tell nurses when to call doctors for patient changes.

Patient Education

11. Design a tablet system to teach patients about their medicines.
12. Create virtual reality lessons showing patients how to care for themselves at home.
13. Build an app to teach new parents how to care for their babies.
14. Make interactive games to help kids understand their medical treatments.
15. Develop videos to teach patients how to use home medical equipment.
16. Create a system to send daily health tips to patients' phones.
17. Build a program to teach patients healthy eating habits.
18. Design an app to help patients track their exercise progress.
19. Make a tool to teach patients about managing chronic conditions.
20. Create interactive lessons to prevent health problems.

Quality Improvement

21. Build a system to track how well nurses follow hand-washing rules.
22. Create a program to improve night shift handoffs.
23. Design a tool to reduce medicine mistakes.
24. Make a system to track and reduce patient waiting times.
25. Develop a way to ensure all safety checks are done properly.
26. Create a program to prevent equipment breakdowns.
27. Build a tool to track and improve cleaning routines.
28. Design a system to help reduce patient falls.
29. Make an app to improve nurse care documentation.
30. Create a way to track and raise patient satisfaction.

Communication Enhancement

31. Build a secure chat system for nurses and doctors.
32. Create a tool to improve patient updates between shifts.
33. Design a program to help nurses explain medical terms to patients.
34. Make a system to improve team communication during emergencies.
35. Develop an app to help nurses talk to patients who speak other languages.
36. Create a program to make nurse-to-nurse handoffs clearer.
37. Build a tool to help nurses share patient care tips.
38. Design a system to improve communication with families.
39. Make an app to track team goals and progress.
40. Create a tool for nurses to share important updates quickly.

Data Analysis

41. Build a system to find patterns in patient recovery times.
42. Create a tool to track which treatments work best.
43. Design a program to predict busy times in the hospital.
44. Make a system to analyze patient feedback.
45. Develop a tool to track and improve nurse workflows.
46. Create a system to find cost-saving ways to improve care.
47. Build a program to track supply usage patterns.

48. Design an app to analyze why patients are readmitted.
49. Make a system to track infection patterns.
50. Create a tool to measure the success of new nursing programs.

Health Informatics Projects

Technology Integration

51. Build a system to connect patient monitors to nurses' mobile devices.
52. Create a tool to help nurses track medical equipment locations.
53. Design a program to automate supply ordering.
54. Make an app to schedule patient care activities.
55. Develop a system to track medicine inventory.
56. Create a tool to manage patient room assignments.
57. Build a program to connect lab results to patient records.
58. Design a way to track when medical devices need maintenance.
59. Make a system to manage visitor access.
60. Create an app to track patient transport status.

Patient Safety

61. Build a program to double-check medicine doses.
62. Create a system to ensure the right treatments are given to the right patients.
63. Design a tool to track isolation precautions.
64. Make an app to prevent patient mix-ups.
65. Develop a way to track and prevent nurse fatigue.
66. Create a program to monitor equipment alarms.
67. Build a system to track patient allergies.
68. Design a tool to help prevent pressure injuries.
69. Make a way to track patient mobility status.
70. Create an app to monitor patient nutrition needs.

Staff Development

71. Build an online learning system for new nurses.
72. Create virtual simulations for practicing emergency care.
73. Design a tool to track nurse competencies.
74. Make a program to help nurses learn new procedures.
75. Develop a system to share best practices.
76. Create an app to help nurses study for certifications.
77. Build a tool to provide quick reference guides.
78. Design a way to track continuing education.
79. Make a system to mentor new nurses.
80. Create a program for skill assessments.

Research Support

81. Build a database for nursing research projects.

82. Create a tool to collect patient data.
83. Design a system to analyze care outcomes.
84. Make a program to track treatment effectiveness.
85. Develop a way to share research findings.
86. Create an app to help nurses join studies.
87. Build a tool to manage research documentation.
88. Design a system to track study progress.
89. Make a way to analyze patient feedback.
90. Create a program to write research reports.

Workflow Optimization

91. Build a system to improve nurse scheduling.
92. Create a tool to reduce paperwork time.
93. Design a program to make admissions faster.
94. Make an app to manage patient discharges.
95. Develop a way to track nurse workloads.
96. Create a system to improve medicine delivery.
97. Build a tool to coordinate patient care.
98. Design a way to manage team assignments.
99. Make a program to track task completion.
100. Create an app to prioritize patient needs.

Examples of Informatics in Practice

Electronic Health Records

101. Build a better way to record patient vital signs.
102. Create a system to track patient progress.
103. Design a tool to improve chart accuracy.
104. Make a program to help write care notes.
105. Develop an app to track patient medications.
106. Create a way to document procedures.
107. Build a system to record patient teaching.
108. Design a tool to track care plans.
109. Make a program to manage patient goals.
110. Create an app to document patient responses.

Remote Patient Monitoring

111. Build a system to track patients at home.
112. Create a tool to monitor chronic conditions.
113. Design a program to track recovery progress.
114. Make an app to monitor exercise compliance.
115. Develop a way to track vital signs remotely.
116. Create a system to check medicine compliance.
117. Build a tool to monitor sleep patterns.
118. Design a way to track symptoms at home.

119. Make a program to monitor weight changes.
120. Create an app to track mood and behavior.

Clinical Guidelines

121. Build a system to help follow care protocols.
122. Create a tool to guide treatment decisions.
123. Design a program to support evidence-based care.
124. Make an app to help follow best practices.
125. Develop a way to update care guidelines.
126. Create a system to track protocol compliance.
127. Build a tool to help choose treatments.
128. Design a way to measure guideline effectiveness.
129. Make a program to support clinical decisions.
130. Create an app to guide care planning.

Resource Management

131. Build a system to track supply usage.
132. Create a tool to manage equipment.
133. Design a program to track bed availability.
134. Make an app to manage staff schedules.
135. Develop a way to track medicine inventory.
136. Create a system to manage room turnover.
137. Build a tool to track resource use.
138. Design a way to manage patient flow.
139. Make a program to track costs.
140. Create an app to manage assignments.

Quality Metrics

141. Build a system to track care outcomes.
142. Create a tool to measure patient satisfaction.
143. Design a program to monitor safety events.
144. Make an app to track infection rates.
145. Develop a way to measure care quality.
146. Create a system to track readmissions.
147. Build a tool to monitor the length of stay.
148. Design a way to track complaint resolutions.
149. Make a program to measure staff performance.
150. Create an app to track quality improvements.

Patient Outcome Improvement Projects

Prevention Strategies

151. Build a system to prevent patient falls.
152. Create a tool to reduce medication errors.

153. Design a program to prevent infections.
154. Make an app to avoid complications.
155. Develop a way to stop pressure injuries.
156. Create a system to prevent medical mistakes.
157. Build a tool to lower readmissions.
158. Design a way to avoid adverse events.
159. Make a program to prevent delays.
160. Create an app to reduce errors.

Patient Engagement

161. Build a system to involve patients in their care.
162. Create a tool to improve health understanding.
163. Design a program to encourage self-care.
164. Make an app to support behavior change.
165. Develop a way to boost compliance.
166. Create a system to help patients set goals.
167. Build a tool to improve patient understanding.
168. Design a way to increase patient participation.
169. Make a program to support recovery.
170. Create an app to raise patient satisfaction.

Care Coordination

171. Build a system to improve team communication.
172. Create a tool to manage care transitions.
173. Design a program to handle referrals.
174. Make an app to track consultations.
175. Develop a way to improve patient handoffs.
176. Create a system to manage appointments.
177. Build a tool to coordinate services.
178. Design a way to handle care plans.
179. Make a program to track progress.
180. Create an app to manage follow-ups.

Outcome Measurement

181. Build a system to track recovery rates.
182. Create a tool to measure health improvements.
183. Design a program to monitor patient progress.
184. Make an app to track health status.
185. Develop a way to measure success rates.
186. Create a system to evaluate care outcomes.
187. Build a tool to track goal achievements.
188. Design a way to measure patient satisfaction.
189. Make a program to monitor changes in health.
190. Create an app to track results.

Population Health

191. Build a system to track community health trends.
192. Create a tool to manage chronic conditions.
193. Design a program to support prevention efforts.
194. Make an app to improve wellness efforts.
195. Develop a way to track public health trends.
196. Create a system to manage health screenings.
197. Build a tool to support health promotions.
198. Design a way to improve public health outcomes.
199. Make a program to track demographic health data.
200. Create an app to manage population care.